

FEARLESS PERFORMANCE[®]

ENGLISH

2019-2020



FEARLESS PERFORMANCE[®]



THESE GLOVES ARE MADE FOR WORKING

Our passion is gloves!

We want to help you find the best hand protection possible for whatever work you're about to perform. Keeping hands safe with Granberg gloves has been our goal ever since the beginning.

Granberg was founded in 1961 and is today a leading manufacturer and supplier of gloves. Every day more people discover our wide range of professional gloves.

We are continuously developing our product portfolio, which today consists of over 250 different products.

In our laboratory, the product team is constantly developing products, always in close cooperation with our customers and end users, to meet new needs with the latest technological innovations.

In 2015 and 2016, two years in a row, Granberg AS was awarded the Red Dot Design Award for three of the Granberg® products. We are very proud of these acknowledgements, but there is nothing more rewarding than to meet satisfied customers wearing our gloves. There is something for everyone in our complete range of protective gloves.

Check it out!

These gloves were made for working.
Now let's start working!

THORD PAULSEN FROM NATIONAL GEOGRAPHIC
CHANNEL'S «ICE ROAD RESCUE»





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Thord Paulsen from «Ice Road Rescue», in his work "uniform" and with Granberg gloves, art.no. 115.9001 (see page 39).

OUR CORE VALUES

... express what we at Granberg is, and what characterizes our business in both Norway and elsewhere in the world. The foundation of our core values are crucial for our success over time in competitive environments.



HONESTY

BE HONEST AND REAL,
WITH INTEGRITY IN EVERYTHING YOU DO.

COURAGE

BE BRAVE.
BIG THINGS ARE REALIZED BY
THOSE WHO DARE.



PASSION

BE PASSIONATE.
DIVE INTO WORK WITH HEART AND SOUL.

TEAMWORK

BE A TEAM PLAYER.
TOGETHER WE ACCOMPLISH MORE.





kozane[®]
Soft Armour Textile

THE GRANBERG MANIFESTO:

BOLD BLOOD

**FOR SOME PEOPLE, STAYING SAFE
MEANS STAYING OUT OF HARM'S WAY.**

It means living in the comfort zone,
Where they do not have to think about risk
— about danger.

For some people, this is fine.

But there are some who understand

That if people want to stay in

The comfort zone — the safe zone,

Someone else must get in harm's way.

Not for the thrill of it.

Not as a joke.

But because there is a job to be done.

And someone has to do it:

Someone with bold blood,

Who does not choose the easy route,

But adventure;

Who can be called upon,

And relied upon,

When there is difficult work to be done.

Not because no one else is willing,

But because no one else is better.

For some people, staying safe

Does not mean staying out of harm's way:

It means braving the way

Safely.

**WE KNOW THEM. THEY KNOW US.
THE BLOOD THAT RUNS THROUGH THEIR
VEINS ALSO RUNS THROUGH OURS.**



FEARLESS PERFORMANCE®



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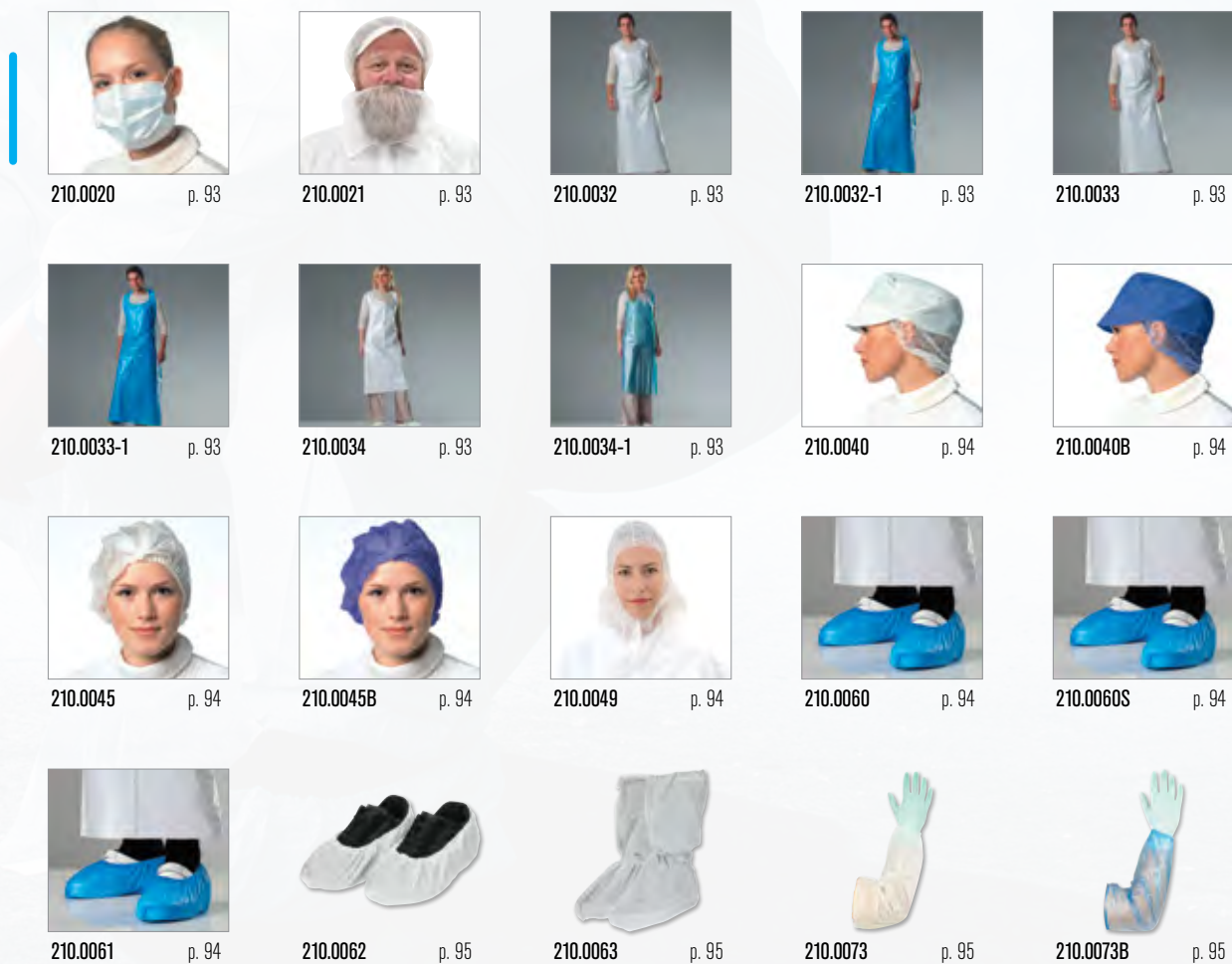
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EXTREME-FIT ASSEMBLY GLOVES

IT IS NOT REALLY A PROTECTIVE GLOVE WITHOUT BEING PROPERLY MARKED

The CE mark is used primarily in the European Union (EU) and the rest of the European Economic Area (EEA).



The CE marking on a product acts as a declaration that the manufacturer or its representative guarantees that the product meets all the requirements of the relevant EU directives and regulations.

The EN 420 standard addresses the general requirements for protective gloves. See page 102.

Protective gloves are divided into three categories according to the degree of risk they are meant to protect against.

This is to be able to adapt the procedures for assessment and quality assurance of the gloves to different needs of protection.

Make sure that you are wearing the right size gloves. If a glove is too loose, your grip may be poor, and the glove may also get stuck in machinery or other objects. This can lead to injury.

Staying safe should be a top priority!



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Seamless	Velcro closure	Coating				Grip type			Other
			PU	PVC/Vinyl	Nitrile	Latex	Dry	Wet	Oily	
100.0433	•		•				•	•		
100.0480			•				•	•		Touchscreen compatible
100.0850	•		•				•	•		ESD protection
101.4295		•					•			Natural leather
107.4201							•	•		Touchscreen compatible
107.4202							•	•		Touchscreen compatible
107.4297		•					•	•		
107.4297W		•					•	•		Waterproof
107.4299							•	•		Touchscreen compatible
107.8105		•					•	•		
107.8888		•					•	•		Touchscreen compatible
108.0600	•				•		•	•		Bamboo viscose lining
109.0400	•			•			•	•	•	Oeko-Tex® approved
109.0400LP	•			•			•	•	•	Water repellent
113.1010							•			Natural leather
113.1020							•			Natural leather
113.1040		•					•			Natural leather
113.4295		•					•			Natural leather
113.4296							•			Natural leather
114.0488W	•				•		•	•		
114.0490	•				•		•	•	•	Waterproof
114.0550	•				•		•	•	•	Oeko-Tex® approved
114.0755	•				•		•	•		
114.0766	•				•		•	•	•	Oeko-Tex® approved
114.0822	•				•		•			
114.0933	•				•		•	•	•	Oeko-Tex® approved
114.0944	•				•		•	•	•	Touchscreen compatible
114.4279					•		•			
120.1118		•					•	•		
120.4271							•			Silikon print in palm
120.4273		•					•			Silikon print in palm
120.4281							•			
120.4282							•			
120.4283		•					•			
120.4284		•					•			
120.4291							•			
120.4292W							•			
120.4293		•					•			
120.4294W		•					•			

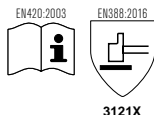


ASSEMBLY GLOVES

Polyurethane coating.

- Highly durable and breathable.
- Ideal for precision work.

Suitable for: Detailed assembly with requirements to good touch sensitivity | Transport/warehousing | Car workshops | Plastic industries, etc.



3121X



TOUCHSCREEN COMPATIBLE ASSEMBLY GLOVES

Polyurethane coating.

- Recommended when operating with Touch Screen Devices.
- Great dry grip.
- Excellent dexterity and breathability.
- An extra thin 18-gauge nylon liner ensures extra softness and flexibility.

Suitable for: Touch screen applications | Assembly and finishing | Light fabrication | Assembly of white goods | General site & factory maintenance.



1120X

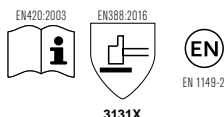


ESD GLOVES

Polyurethane coating.

- Dissipative effect to minimise the occurrence of Electro Static Discharge and stable in terms of anti-static properties.
- ESD approved.

Suitable for: Assembly in the electronics industry | Handling of photographic film | Optics | Laboratories.



3131X



ASSEMBLY GLOVES

Pig grain leather with cotton back and Velcro closure, unlined.

- Ideal for work that requires precision and touch sensitivity.

Suitable for: Assembly/fine work.

Design protected by patents.



3111X

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Polyester
Colour:	Grey
Thickness:	N/A
Length:	23-28 cm
Packaging:	Pair (12/144)
Art:	100.0433

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Nylon
Colour:	Black
Thickness:	N/A
Length:	23-29 cm
Packaging:	Pair (12/144)
Art:	100.0480

Granberg®

Standards:	EN 420, 388:2016, 1149-2
Category:	CE Cat. II
Sizes:	6 7 8 9 10
Material:	PU
Liner:	Nylon
Colour:	White, Grey
Thickness:	N/A
Length:	22-26 cm
Packaging:	Pair (12/144)
Art:	100.0850

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Unlined
Colour:	White, Red
Thickness:	0.8-0.9 mm
Length:	19-25 cm
Packaging:	Pair (12/120)
Art:	101.4295

NEW!

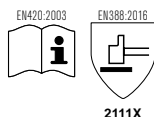


TOUCHSCREEN COMPATIBLE ASSEMBLY GLOVES EX®

MicroSkin Shield® material, elastic polyester back.

- Recommended when operating with Touch Screen Devices.
- Anti-slip pattern in the palm provides enhanced grip.
- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Touch screen applications | Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.



2111X



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	MicroSkin Shield® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Green
Thickness:	N/A
Length:	22-26 cm
Packaging:	Pair (12/144)
Art:	107.4201

NEW!

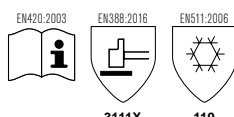


TOUCHSCREEN COMPATIBLE ASSEMBLY WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane, elastic polyester back.

- Recommended when operating with Touch Screen Devices.
- Comfortable and fitted.
- Provides protection against cold and moisture.
- Sewn-in breathable ProTex® membrane ensures water resistance.
- Reflective print on the back increases safety.
- Anti-slip pattern in the palm provides enhanced grip.

Suitable for: Touch screen applications | General assembly | Cold Storage | Outdoor work.



3111X

110



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	MicroSkin Shield® (Palm) Polyester (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black, Green
Thickness:	N/A
Length:	22-26 cm
Packaging:	Pair (12/144)
Art:	107.4202



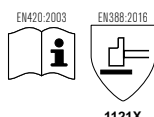
ASSEMBLY GLOVES EX®

MicroSkin Shield® with Spandex® back and Velcro closure, unlined.

- Flexible.
- Good grip and high touch sensitivity.
- Machine washable. Drip dry.

Suitable for: Assembly work and other similar tasks.

Design protected by patents.



1121X



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Unlined
Colour:	Black, Grey
Thickness:	N/A
Length:	22-24 cm
Packaging:	Pair (12/120)
Art:	107.4297



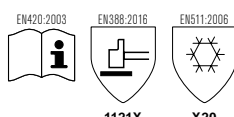
ASSEMBLY WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane and Spandex® back, Velcro closure.

- Provides protection against cold and moisture.
- Warm and soft liner inside the gloves.
- Sewn-in thermal, waterproof and breathable ProTex® membrane.
- Highly flexible.
- Excellent grip.
- Machine washable. Drip dry.

Suitable for: Assembly work and outdoor tasks in wet and/or cold weather.

Design protected by patents.



1121X

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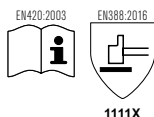


Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black, Grey
Thickness:	N/A
Length:	21-24 cm
Packaging:	Pair (12/120)
Art:	107.4297W

NEW!**TOUCHSCREEN COMPATIBLE ASSEMBLY GLOVES EX®****MicroSkin Shield® with Spandex® back, unlined.**

- Recommended when operating with Touch Screen Devices.
- Ergonomic shape for tight fitting and fatigue reduction.
- Flexible and soft.
- Enhanced grip and high touch sensitivity.

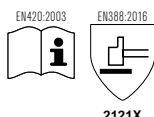
Suitable for: Touch screen applications | Assembly work and other similar tasks | Light fabrication | Warehouse work and general handling.

**1111X****ASSEMBLY GLOVES EX®****MicroSkin Shield® with Spandex® back and Velcro closure, unlined.**

- Flexible and well-fitted.
- Good grip and high touch sensitivity.
- Machine washable. Drip dry.

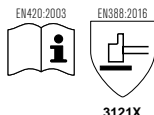
Suitable for: Assembly work and other tasks.

Design protected by patents.

**2121X****ASSEMBLY GLOVES BAMBOO®****Latex foam coating, liner made of bamboo viscose fiber.**

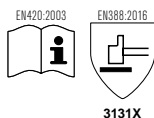
- High breathable properties compared to cotton or any other synthetic fibre.
- Very comfortable and flexible.
- Bamboo fibre is up to 4 times more absorbent than cotton.

Suitable for: Assembly work with high requirements to touch sensitivity and grip.

**3121X****ASSEMBLY GLOVES BLACK DIAMOND, OEKO-TEX® 100 APPROVED****Special vinyl/PVC foam coating.**

- Highly durable.
- Outstanding dexterity and fit.
- The vinyl/PVC coating technology is a patented process.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Construction business | Heavy duty work | Assembly of components | Shipping | Mechanical and automotive.

**3131X**

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-25 cm
Packaging:	Pair (6/72)
Art:	107.4299



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Unlined
Colour:	Black, Grey
Thickness:	N/A
Length:	22-24 cm
Packaging:	Pair (12/120)
Art:	107.8105



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Latex
Liner:	Bamboo viscose
Colour:	White, Grey
Thickness:	N/A
Length:	23-27 cm
Packaging:	Pair (12/144)
Art:	108.0600



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Vinyl/PVC
Liner:	Nylon
Colour:	Black, Grey
Thickness:	N/A
Length:	23-29 cm
Packaging:	Pair (12/144)
Art:	109.0400

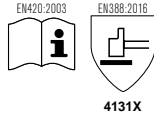


ASSEMBLY GLOVES BLACK DIAMOND

Fully coated with special vinyl/PVC foam coating, water repellent.

- Highly durable.
- Outstanding dexterity and fit.
- The vinyl/PVC coating technology is a patented process.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Construction business | Heavy duty work | Assembly of components | Shipping | Oil and gas industry.



4131X

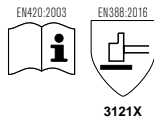


ASSEMBLY GLOVES

Goatskin, unlined.

- Goatskin leather is soft, flexible and touch sensitive.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Strong leather makes the gloves very durable.
- Good breathability on the back of hand.

Suitable for: Assembly/fine work.



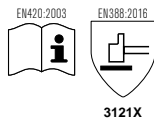
3121X



ASSEMBLY GLOVES

Goatskin, unlined.

- Goatskin leather is soft, flexible and touch sensitive.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Strong leather makes the gloves very durable.
- Fits hand well.



3121X

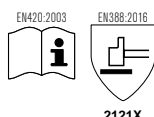


ASSEMBLY GLOVES

Goatskin, unlined.

- Comfortable and fitted.
- Soft and strong goat skin leather provides the gloves excellent dexterity and touch sensitivity.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Polyester back and Velcro closure.

Suitable for: Assembly/fine work.



2121X

Black Diamond®



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	Vinyl/PVC
Liner:	Nylon
Colour:	Black, Grey
Thickness:	N/A
Length:	23-29 cm
Packaging:	Pair (12/144)
Art:	109.0400LP



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin (Palm) Cotton (Back)
Liner:	Unlined
Colour:	White, Grey
Thickness:	1,0-1,1 mm
Length:	23-26 cm
Packaging:	Pair (12/120)
Art:	113.1010



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin
Liner:	Unlined
Colour:	White
Thickness:	0,7-0,9 mm
Length:	22-26 cm
Packaging:	Pair (12/120)
Art:	113.1020



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	9 10 11
Material:	Goatskin (Palm) Polyester (Back)
Liner:	Unlined
Colour:	White, Grey
Thickness:	0,6-0,8 mm
Length:	22-25 cm
Packaging:	Pair (12/120)
Art:	113.1040

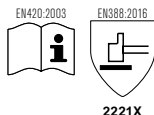


ASSEMBLY GLOVES

Goatskin with elastic cotton back and Velcro closure, unlined.

- Comfortable and fitted.
- Soft and strong goat skin leather provides the gloves excellent dexterity and touch sensitivity.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Good ventilation on back of hand that is made of 100% cotton.

Suitable for: Assembly/fine work.



2221X



ASSEMBLY GLOVES

Goatskin, unlined.

- Comfortable and fitted.
- Soft and strong goat skin leather provides the gloves excellent dexterity and touch sensitivity.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Polyester back.

Suitable for: Assembly/fine work.



2121X

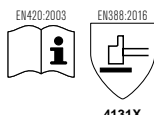


ASSEMBLY WINTER GLOVES

Special nitrile foam coating.

- Durable.
- Warm, fitted and very comfortable.
- Warm brushed acrylic on inside, strong nylon outer shell.

Suitable for: Refrigerated display counter and cold storage rooms | Outdoor assembly | Inspections | Handling small parts.



4131X

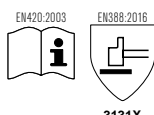


ASSEMBLY GLOVES

Double nitrile coating, waterproof.

- Highly durable.
- Coated with a thin layer of sky blue waterproof nitrile coating.
- Black sandy foam overdip ensures excellent wet, dry and oily grip.
- Good dexterity and fit.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Mechanical and automotive | Oil and Gas industry | Refineries | Construction business.



3131X

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin (Palm) Cotton (Back)
Liner:	Unlined
Colour:	White, Grey
Thickness:	0,6-0,8 mm
Length:	21-24 cm
Packaging:	Pair (12/120)
Art:	113.4295

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	5 6 7 8 9 10 11
Material:	Goatskin (Palm) Polyester (Back)
Liner:	Unlined
Colour:	White, Grey
Thickness:	0,5-0,7 mm
Length:	21-26 cm
Packaging:	Pair (12/120)
Art:	113.4296

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Nitril
Liner:	Brushed acrylic
Colour:	Blue, Black
Thickness:	N/A
Length:	24-27 cm
Packaging:	Pair (12/144)
Art:	114.0488W

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Nitril
Liner:	Nylon
Colour:	Blue, White, Black
Thickness:	N/A
Length:	23-27 cm
Packaging:	Pair (12/144)
Art:	114.0490



4131X

X1XXXX

ASSEMBLY GLOVES POWERFIT®, OEKO-TEX® 100 APPROVED

Patented nitrile foam coating with microdots.

- Microdots on the palm ensure firm oily grip, wet grip, and dry grip.
- Excellent abrasion resistance combined with dexterity and breathability.
- The patented micro-capillary nitrile foam technology.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly and finishing | Metal fabrication |
Assembly of white goods | General site & factory maintenance |
Warehouse work and general handling.



ASSEMBLY GLOVES

Special nitrile foam coating.

- Highly durable.
- Fitted model, comfortable and flexible.
- Good breathability.

Suitable for: Detailed assembly | Inspection | Handling small parts, etc.



3121X

ASSEMBLY GLOVES POWERFIT®, OEKO-TEX® 100 APPROVED

Patented nitrile foam coating.

- Great oil grip, wet grip, and dry grip.
- Excellent abrasion resistance combined with dexterity and breathability.
- The patented micro-capillary nitrile foam technology.
- ANTIWET treated.
- An extra thin 18-gauge nylon liner ensures extra softness and flexibility.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly and finishing | Metal fabrication | Assembly of white goods |
General site & factory maintenance | Warehouse work and general handling.



4121X

X1XXXX

ASSEMBLY GLOVES

Sandy nitrile coating.

- High durability and abrasion resistance.
- Highly dexterous.
- Well fitted and soft.
- Economical industrial packaging.

Suitable for: Construction business | Mechanical and automotive |
Detailed assembly | Inspection | Handling small parts, etc.



4132X

POWERFIT®

BY GRANBERG

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitril
Liner:	Nylon/Spandex®
Colour:	Black
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0550

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitril
Liner:	Nylon
Colour:	Black, Grey
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0755

POWERFIT®

BY GRANBERG

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitril
Liner:	Nylon/Spandex®
Colour:	Black, Grey
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0766

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Nitril
Liner:	Polyester
Colour:	Black, Grey
Thickness:	N/A
Length:	23-27 cm
Packaging:	Pair (12/144)
Art:	114.0822



4131X

X1XXXX

ASSEMBLY GLOVES POWERFIT®, OEKO-TEX® 100 APPROVED

Patented nitrile foam coating.

- Great oil grip, wet grip, and dry grip.
- Excellent abrasion resistance combined with dexterity and breathability.
- The patented micro-capillary nitrile foam technology.
- ANTIWET treated.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly and finishing | Metal fabrication | Assembly of white goods | General site and factory maintenance | Warehouse work and general handling.



4131X

X1XXXX

TOUCHSCREEN COMPATIBLE ASSEMBLY GLOVES POWERFIT® OEKO-TEX® 100 APPROVED

Patented nitrile foam coating.

- Recommended when operating with Touch Screen Devices.
- Great oil grip, wet grip, and dry grip.
- Excellent abrasion resistance combined with dexterity and breathability.
- The patented micro-capillary nitrile foam technology.

Suitable for: Touch screen applications | Assembly and finishing | Light fabrication | Assembly of white goods | General site & factory maintenance | Warehouse work and general handling.



4131X

X1XXXX

ASSEMBLY GLOVES POWERFIT®, OEKO-TEX® 100 APPROVED

Nitrile coating.

- Excellent abrasion resistance and very good dexterity and breathability.
- Thumb crotch reinforcement.
- Provides exceptional comfort and flexibility.
- Great oil grip, wet grip, and dry grip.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly and finishing | Assembly of white goods | General site and factory maintenance | Warehouse work and general handling.



4121A

X1XXXX

ASSEMBLY GLOVES

Full nitrile microfoam coating, unlined.

- High durability, dexterity and tactile sensitivity.
- Resistant to contact heat up to 100°C for 15 seconds.
- Water and oil repellent.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics when handling hot parts

POWERFIT®

BY GRANBERG

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitrile
Liner:	Nylon/Spandex®
Colour:	Black, Grey
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0933

POWERFIT®

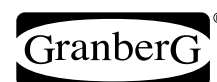
BY GRANBERG

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitrile
Liner:	Nylon/Spandex®
Colour:	Blue
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0944

POWERFIT®

BY GRANBERG

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitrile
Liner:	Nylon/Spandex®
Colour:	Blue
Thickness:	N/A
Length:	21-28 cm
Packaging:	Pair (12/144)
Art:	114.0988



Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Nitrile
Liner:	Nylon
Colour:	Black
Thickness:	N/A
Length:	23-26 cm
Packaging:	Pair (12/144)
Art:	114.4279



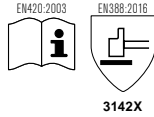
ASSEMBLY GLOVES EX®

MacroSkin Pro® with Spandex® back and Velcro closure, unlined.

- A rugged work glove that can hardly wear out.
- Reinforced palm and fingertips.
- Soft and supple wrist end made of the elastic neoprene.
- Good breathability.
- Adjustable Velcro closure at the wrist.
- Machine washable. Drip dry.

Suitable for: Rough work, e.g. for offshore usage | Iron fixing | Sawmill work.

Design protected by patents.



3142X

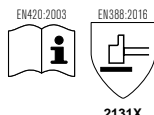


ASSEMBLY GLOVES EX®

MacroSkin Pro® with silicone print, elastic polyester back, unlined.

- Ideal for work that requires enhanced grip.
- Comfortable and fitted.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.



2131X

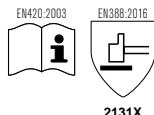


ASSEMBLY GLOVES EX®

MacroSkin Pro® with silicone print, elastic polyester back and Velcro closure, unlined.

- Ideal for work that requires enhanced grip.
- Comfortable and fitted.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.



2131X



ASSEMBLY GLOVES

MacroSkin Pro® with elastic polyester back, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/Control | Gardening | Retail.



2121X



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	MacroSkin Pro® (Palm) Spandex® (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	23-26 cm
Packaging:	Pair (12/120)
Art:	120.1118



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	MacroSkin Pro®/Silicone (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	22-26 cm
Packaging:	Par 12/144
Art:	120.4271



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	MacroSkin Pro®/Silicone (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	22-26 cm
Packaging:	Pair (12/144)
Art:	120.4273



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4281

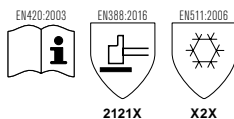


ASSEMBLY WINTER GLOVES

MacroSkin Pro® with elastic polyester back, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use | Gardening | Retail.

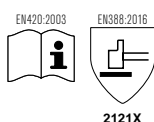


ASSEMBLY GLOVES

MacroSkin Pro® with elastic polyester back with Velcro closure, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control | Gardening | Retail.

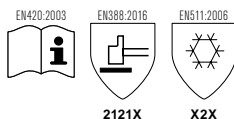


ASSEMBLY WINTER GLOVES

MacroSkin Pro® with elastic polyester back with Velcro closure, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use | Gardening | Retail.

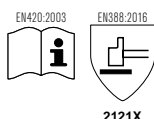


ASSEMBLY GLOVES EX®

MacroSkin Pro® with elastic polyester back, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.



Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4282

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4283

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4284

EX®
BY GRANBERG

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4291

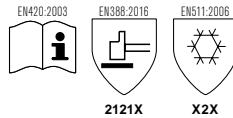


ASSEMBLY WINTER GLOVES EX®

MacroSkin Pro® with elastic polyester back, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use.

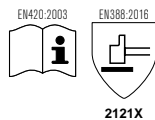


ASSEMBLY GLOVES EX®

MacroSkin Pro® with elastic polyester back with Velcro closure, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.

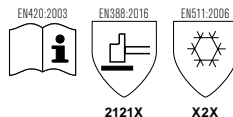


ASSEMBLY WINTER GLOVES EX®

MacroSkin Pro® with elastic polyester back with Velcro closure, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use.



Standards:	EN 420, 388:2003, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4292W



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Gray, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4293



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4294W

Touch Screen Compatibility

Grip Power

Cut Resistance

18 Gauge Knitting Technology

Art. 116.592





CUT RESISTANT GLOVES AND ARMGUARDS

HIGHLY RESISTANT MATERIALS



No material met our needs, so we invented one that does. Kozane® is an innovative high-tech material with greater cut, abrasion and slash resistance than any other textile or fabric in its class. Yet it is soft and flexible enough to be made into protective clothing that won't make you feel like you're wearing a suit of armour.

Kozane® Soft Armour Textile is a product developed and produced by Granberg®.

TYPHOON

Typhoon® is an extremely strong (yield strength) fibre combination characterized by the highest level of cut resistance.

The technological solutions applied have yielded a fibre combination consisting of high molecular weight polyethylene, glass fibre and elastane/spandex.

Typhoon® is light, 10 to 15 times stronger than steel (per unit weight) and up to 40% stronger than aramid fibres.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Chemical resistant	Oil repellent	Coated	Winter lined	Velcro closure	Seamless	Other
107.4997W				•	•		
113.1023							Flame/heat resistant, natural leather
113.1024							Natural leather
116.0995			•			•	
116.501						•	Extra long, foodsafe
116.506				•		•	Extra long, foodsafe
116.540			•			•	Abrasion resistant
116.541			•			•	Tear and abrasion resistant
116.548		•	•			•	
116.560			•			•	
116.561			•			•	Extra long
116.580			•	•		•	
116.591			•			•	
116.592		•	•			•	Abrasion and tear resistant
116.599		•	•			•	Cut, abrasion and tear resistant
116.8150	•	•				•	Extra long
703-01					•		Kozane® armguards



CUT RESISTANCE APPROVAL

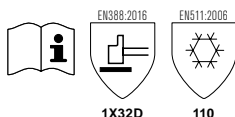
There are several requirements to be fulfilled and tests to pass before a glove qualifies as cut resistant. Want to know more about it? Check page 103.

NEW!**CUT-RESISTANT WINTER GLOVES EX®**

MicroSkin Shield®, Spandex® back of hand,
ProTex® membrane, Velcro closure.

- Provide protection against cold and moisture.
- Cut-resistant layer of Typhoon® in the palm.
- Waterproof ProTex® membrane with excellent breathability.
- Warm and soft lining.
- Highly flexible
- Excellent grip.

Suitable for: Outdoor work involving risk of cut injuries and performed in cold and/or wet weather.



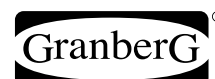
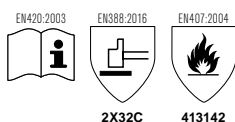
Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Typhoon® (Palm lined)
Colour:	Black, Grey
Thickness:	N/A
Length:	21-24 cm
Packaging:	Pair (12/72)
Art:	107.4997W

**CUT AND HEAT RESISTANT GLOVES**

Goatskin, fully Kevlar® lined.

- Soft and strong goatskin leather provides the gloves excellent dexterity and touch sensitivity.
- Very comfortable and fitted.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Stitched-in 100% full Kevlar® lining protects hands from cuts.
- Sewn with Kevlar® threads.

Suitable for: Construction | Automotive manufacturing | Oil and gas | Assembly.



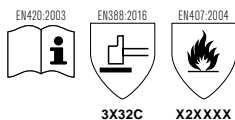
Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	8 9 10 11 13
Material:	Goatskin
Liner:	Kevlar® (Fully lined)
Colour:	White
Thickness:	0,7-0,9 mm
Length:	23-26 cm
Packaging:	Pair (12/72)
Art:	113.1023

NEW!**CUT- AND HEAT-RESISTANT GLOVES**

Goatskin palm, cotton back of hand, fully Kevlar® lined.

- Goatskin provides very good abrasion resistance and tensile strength.
- Full Kevlar® lining protects hands from heat and cuts.
- Good ventilation on the back of the hand, which is made of cotton.
- Sewn with Kevlar® threads.
- Comfortable and fitted.

Suitable for: Material Handling | Building and Construction | Automotive manufacturing.



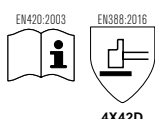
Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Goatskin (Palm) Cotton (Back)
Liner:	Kevlar® (Fully lined)
Colour:	White, Grey
Thickness:	0,7-0,9 mm
Length:	22-27 cm
Packaging:	Pair (6/72)
Art:	113.1024

**CUT RESISTANT GLOVES**

Typhoon® and polyurethane coating.

- Highly durable.
- Very good abrasion resistance and good cut protection.
- Good touch sensitivity.
- Economical version.

Suitable for: Assembly work with high requirements to abrasion resistance and where there is risk of cut injuries.



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Typhoon®
Colour:	Black, Grey
Thickness:	N/A
Length:	23-27 cm
Packaging:	Pair (12/144)
Art:	116.0995

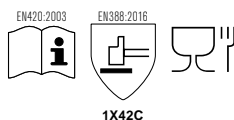


CUT RESISTANT INNER GLOVES

Typhoon®.

- Durable.
- Highly recommended as a cut-resistant liner gloves with single-use gloves and reusable gloves.
- Provides cut resistance barrier as well as finger sensitivity.
- Ambidextrous.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).

Suitable for: Use in meat industries, catering, fish processing industries and other food industries where knives or other sharp objects are handled.



1X42C

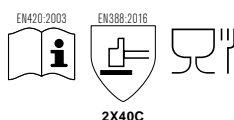


CUT RESISTANT WARM INNER GLOVES

Typhoon®.

- Warm inner gloves.
- Highly recommended as a cut resistant liner glove with single-use gloves and reusable gloves.
- Cut resistance barrier combined with finger sensitivity.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Ambidextrous.

Suitable for: Cold environments | Use in meat industries, catering, fish processing industries and other food industries where knives or other sharp objects are handled.



2X40C

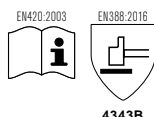


CUT RESISTANT GLOVES

Typhoon® fibre with polyurethane coating.

- Especially abrasion and tear resistant.
- Fitted with great touch sensitivity.
- Typhoon® is one of the strongest fibres in the world.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly work with extremely high requirements to abrasion resistance and where there is a risk of cut injuries.



4343B

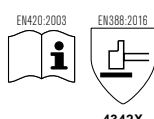


CUT RESISTANT GLOVES

Typhoon® fibre with polyurethane coating.

- Especially abrasion and tear-resistant.
- Fitted with great touch sensitivity.
- Typhoon® is one of the strongest fibres in the world.

Suitable for: Assembly work with extremely high requirements to abrasion resistance and where there is a risk of cut injuries



4342X



Standards:	EN 420, 388:2016, 1186
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Typhoon®
Liner:	N/A
Colour:	Blue
Thickness:	N/A
Length:	30-34 cm
Packaging:	Pair (6/72)
Art:	116.501



Standards:	EN 420, 388:2016, 1186
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Typhoon®
Liner:	N/A
Colour:	Blue
Thickness:	N/A
Length:	30-35 cm
Packaging:	Pair (6/72)
Art:	116.506



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Typhoon®
Colour:	White
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	116.540



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Typhoon®
Colour:	Black
Thickness:	N/A
Length:	22-25 cm
Packaging:	Pair (12/144)
Art:	116.541

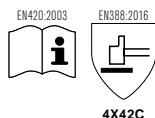


CUT RESISTANT GLOVES

Typhoon® fibre with nitrile coating, oil resistant.

- Especially abrasion and tear resistant.
- Good protection against cuts.
- Fitted with great touch sensitivity.
- Typhoon® is one of the strongest fibres in the world.

Suitable for: Assembly work with extremely high requirements to abrasion resistance and where there is great risk of cut injuries.



4X42C

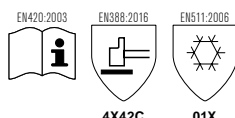


CUT RESISTANT WINTER GLOVES

Typhoon® fibre with sandy nitrile coating.

- Highly durable. Soft and flexible gloves with long life.
- Very comfortable and warm gloves with good grip.
- Brushed acrylic interior that provides warmth almost on par with wool.

Suitable for: Use in cold environments with a high risk of cuts.



4X42C

01X

NEW!

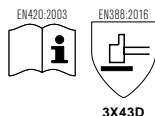


TOUCHSCREEN COMPATIBLE CUT-RESISTANT GLOVES

Typhoon® material, polyurethane coating.

- Very good protection against cut injuries (EN 388:2016 level D) combined with high abrasion resistance.
- Especially good flexibility and freedom of movement and very comfortable (18-gauge thread technology).
- Reinforced thumb crotch provides extended use life.
- Ideal for precision handling in dry conditions.
- Typhoon® is one of the strongest fibres in the world.

Suitable for: Works tasks with very high requirements for cut protection and exceptionally high demands for touch sensitivity – primarily dry conditions.



3X43D

NEW!

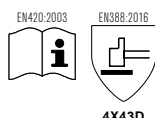


CUT-RESISTANT GLOVES

Typhoon® material, sandy nitrile coating.

- Recommended when in need of operating touch screen devices.
- Very good protection against cut injuries (EN 388:2016 level D) combined with superior abrasion resistance.
- Especially good flexibility and freedom of movement and very comfortable (18-gauge thread technology).
- Reinforced thumb crotch provides extended use life.
- Ideal for precision handling in wet or oily conditions.
- Typhoon® is one of the strongest fibres in the world.

Suitable for: Touch screen applications.



4X43D



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Nitril
Liner:	Typhoon®
Colour:	Black, Grey
Thickness:	N/A
Length:	24-26 cm
Packaging:	Pair (12/144)
Art:	116.548



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 10 11 12
Material:	Nitril
Liner:	Typhoon®/Acrylic flannel
Colour:	Blue, Black
Thickness:	N/A
Length:	25-29 cm
Packaging:	Pair (12/48)
Art:	116.580



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	PU
Liner:	Typhoon®
Colour:	Black, Grey
Thickness:	N/A
Length:	24-26 cm
Packaging:	Pair (12/144)
Art:	116.591



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Nitril
Liner:	Typhoon®
Colour:	Black, Grey
Thickness:	N/A
Length:	24-26 cm
Packaging:	Pair (12/144)
Art:	116.592

NEW!

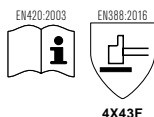


CUT RESISTANT GLOVES

Typhoon® fibre with a double dipped sandy nitrile coating.

- Provides extreme blade cut resistance, EN 388:2016, level F (highest level).
- Excellent abrasion and tear resistance.
- Double dipped sandy nitrile coating for superior abrasion resistance.
- Thumb crotch reinforcement.
- Very flexible, dexterous and comfortable fit.
- Typhoon® is one of the strongest fibres in the world.
- Ideal for precision handling in oily conditions.

Suitable for: Handling parts with sharp, rough edges | Handling sharp metal sheets | Cutting glass | Metal working & assembly operations etc.



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12 12
Material:	Nitril
Liner:	Typhoon®
Colour:	Black, Grey,
Thickness:	N/A
Length:	24-26 cm
Packaging:	Pair (12/144)
Art:	116.599

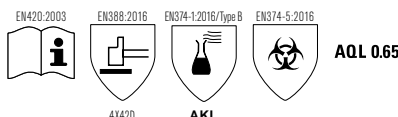


CUT- AND CHEMICAL RESISTANT VINYL/PVC GLOVES

Typhoon® liner.

- Highly durable.
- Double-dipped vinyl/PVC coating provides protection against a range of chemicals.
- Cut level D Typhoon® liner provides 360° protection.
- Outstanding grip in dry, wet and oily conditions.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishing industry and other industries where there is high risk of injury from cuts | Refining – Oil and Petrol | Handling acids, caustics and solvents | Petrochemicals | Public utilities.



Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	9 10 11 12
Material:	Vinyl/PVC
Liner:	Nylon/Lycra®
Colour:	Black, Green
Thickness:	N/A
Length:	35 cm
Packaging:	Pair (6/60)
Art:	116.8150

NEW!

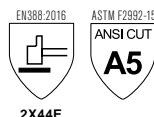


ARM GUARDS

Made of Kozane®.

- Kozane® is an innovative high-tech material with greater cut, abrasion and slash resistance than any other textile or fabric in its class.
- Tested and approved according to EN 388:2016, Cut Test ASTM F 2992-15 and HOSDB Slash Resistance Standard UK Police (2006) Publication 48/05.
- Softness and flexibility allow complete freedom of action.
- Breathable and suitable in contact with skin.
- Ergonomic design.
- Adjustable Velcro on the wrist and arm to stay firmly in place.
- Neoprene thumb loop.
- Washable at 60°C.

Suitable for: Military | Police | Prisons | Private security companies | Ambulance personnel | Law enforcement | Special forces



Testing of the end product is ongoing.
The results are for one layer of Kozane®.
Patent pending.



Standards:	EN 388:2016, ASTM F2992-15, HOSDB (2006)
Category:	CE Cat. II
Sizes:	S/M L/XL
Material:	Kozane®
Liner:	Unlined
Colour:	Silver
Thickness:	N/A
Length:	48 cm
Packaging:	Piece (left/right variant)
Art:	703-01

ART 116.591

OUR BRANDS



GRANBERG®

Genuine. Our very own brand. Developed through years of experience and still making history. A wide selection of gloves for the job at hand. An ever-evolving brand, from regular protection to the latest innovations in fabrics and materials.



EX®

Exemplary. Identify your gloves easily, and enjoy the feeling wearing them. EX® gloves are highly recognisable and high performance protective gloves. It uses chromium-free synthetic leather for an exclusive feeling and Hi-Viz green colour for extra visibility. EX® is an excellent choice.



CHEMSTAR®

Harmony. Hand and glove in perfect chemistry. Let your hand be the star and let Chemstar® support it. Chemstar® is the best choice for protection against chemical agents. For no risk, no exposure and no chance for chemical endangerment; remember Chemstar®. Available both as single-use and reusable gloves.



PROTECTOR®

Shield. Do your hands work in harsh settings? Is your job a dangerous and risky operation? Protector® provides extreme durability and the best cut resistance in its class. With these gloves on, you are safe even in the toughest of conditions. In a rough environment, you don't need heavy armour gauntlets, the job will get done safely with Protector®.



POWERFIT®

Genuine. Our very own brand. Developed through years of experience and still making history. A wide selection of Embrace. POWERFIT® provides a superb grip, tactile sensitivity, comfort and protection for a true multi-tasker. Highly durable and resistant, and yet still remains friendly to your skin and the environment. Get a grip on the situation with POWERFIT®.



MAGIC TOUCH®

Enchanting. The glove that's soft, sensitive, and smooth as silk. It makes every detail come alive. Magic Touch® comes in thin powder-free nitrile for that extra sensitive touch. A wide range of features helps you find just the right glove. When you need magic through your fingertips; it's an easy choice, it's Magic Touch®!



BLACK DIAMOND®

Resilient. Brute force, fine craftsmanship, authenticity and integrity, that is our Black Diamond®. Thanks to its liquid-repellent coating, our Black Diamond® fights off water and oils with ease. Work hard, protect harder with Black Diamond®.



BAMBOO®

Organic. Bamboo®, a gift from nature adapted to protect even the most sensitive skin. Softer than cotton, this glove lives and breathes inspiration in the workplace. A pleasure to touch and a joy to wear. The eco-friendly Bamboo® is a natural winner.



KOZANE®

Kozane® is an innovative high-tech material with greater cut, abrasion and slash resistance than any other textile or fabric in its class. Yet it is soft and flexible enough to make into protective clothing that won't make you feel like you're wearing a suit of armour.

Kozane® Soft Armour Textile - www.kozaneprotection.com



CHEMICAL RESISTANT GLOVES

YOUR HANDS ARE EXPOSED TO CHEMICALS TO A GREATER EXTENT THAN MOST OF US REALIZE.

Most of us use the word chemicals to refer to substances contained in fluids which are used in industries, laboratories, sanitation work, etc. However, what most of us are unaware of is the fact that we are exposed to chemicals on a daily basis.

A person can be contaminated in a variety of ways and absorption through skin contact with chemicals is the most common. One way of preventing contamination injuries and illnesses through skin contact is to make sure you wear the correct protection for the chemical you are about to handle.

All glove types react differently to exposure to different chemicals. Our website contains an extensive database of chemicals which are tested with our chemical resistant gloves.

The database will give you a glove recommendation and a permeation time to enable you to choose the best protection available for your application.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Length (cm)	Single use	Foodsafe	Glove material					Other
				Lined	PVC/Vinyl	Nitrile	Neoprene	Latex	
109.229	31			•	•				Winter lined, oil repellent
109.1730	30			•	•				Oil repellent
109.8135	35			•	•				Oil repellent
109.8145	45			•	•				Oil repellent
111.0300	30			• ¹	•				Free from phthalater
112.0122	30			•	• ¹			•	
112.0700	30			•	• ¹			•	Double dipped
114.0630	30			•	•	•			Oil repellent
114.0630W	30			•	•	•			Oil repellent
114.1000	33			•	• ¹	•			Oil repellent
114.1046	46			•		•			Oil repellent
114.2000	30			• ¹			•		Oil repellent
114.3000	40			•	•		•		Heat resistant, winter lined, oil repellent
114.3230	33					•			
114.940	27	•	•			•			Powder free, high visibility, extra longe
114.950	30	•				•			Powder free, extra longe
114.955	29-30	•	•			•			Extra long, powder free, fish scale grip
114.970	24	•				•			Powder free, fish scale grip
115.9011	39			•	•				Cut resistant, impact protection, oil repellent
115.9012	32			•	•				Cut resistant, impact protection, oil repellent
116.8150	35			•	•				Cut resistant, oil resistant

¹ Flocklined.

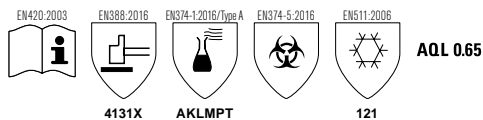


VINYL/PVC CHEMICAL RESISTANT WINTER GLOVES CHEMSTAR®

Removable acrylic flannel liner.

- Highly durable.
- Comfortable and flexible.
- Remains soft in temperatures as low as - 20°C.
- Resistant to petrol, diesel and many chemicals.
- Liner can be washed/dried separately.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishermen | Cold storage work | Outdoor winter work.

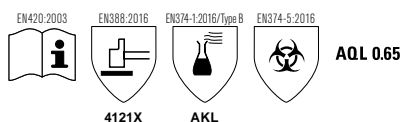


VINYL/PVC CHEMICAL RESISTANT GLOVES CHEMSTAR®

Cotton interlock lined.

- Flexible and soft.
- Seamless liner for great comfort during use.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishing/processing | General use in wet conditions.

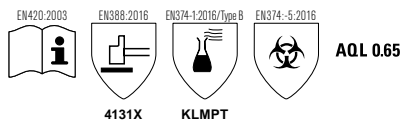


VINYL/PVC CHEMICAL RESISTANT GLOVES CHEMSTAR®

Seamless nylon liner.

- Highly durable.
- Soft with outstanding grip in dry, wet and oily conditions.
- Flexible, and less tiring to the hand.
- Easier to get on and off.
- Special double-dipped vinyl/PVC coating.
- REACH-compliant.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Refining – Oil & Petrol | Handling acids, caustics and solvents | Petrochemicals | Public utilities.

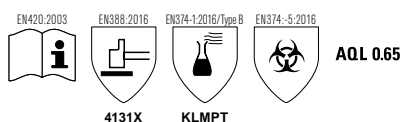


VINYL/PVC CHEMICAL RESISTANT GLOVES CHEMSTAR®

Seamless nylon liner.

- Highly durable.
- Soft with outstanding grip in dry, wet and oily conditions.
- Flexible, and less tiring to the hand.
- Easier to get on and off.
- Special double-dipped vinyl/PVC coating.
- REACH-compliant.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishing industry | Refining – Oil & Petrol | Handling acids, caustics and solvents | Petrochemicals | Public utilities.



CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 511
Category:	CE Cat. III
Sizes:	9 10
Material:	Vinyl/PVC
Liner:	Acrylic flannel
Colour:	Blue
Thickness:	N/A
Length:	31 cm
Weight:	N/A
Packaging:	Pair (10/60)
Art:	109.229

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Vinyl/PVC
Liner:	Interlock
Colour:	Orange
Thickness:	N/A
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/120)
Art:	109.1730

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11 12
Material:	Vinyl/PVC
Liner:	Nylon
Colour:	Black, Green
Thickness:	N/A
Length:	35 cm
Weight:	N/A
Packaging:	Pair (6/60)
Art:	109.8135

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Vinyl/PVC
Liner:	Nylon
Colour:	Black, Green
Thickness:	N/A
Length:	45 cm
Weight:	N/A
Packaging:	Pair (6/60)
Art:	109.8145

PHTHALATE
FREE

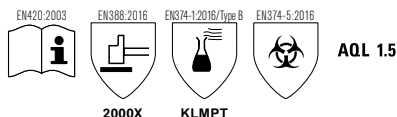


VINYL/PVC CHEMICAL RESISTANT GLOVES CHEMSTAR®

Anti-allergic, cotton flock lined.

- Comfortable and soft.
- Resistant to many chemicals including bleach.
- Anti-allergy tested. Contains no known allergens.
- Does not contain Phthalates.

Suitable for: Professional cleaning | Catering etc.

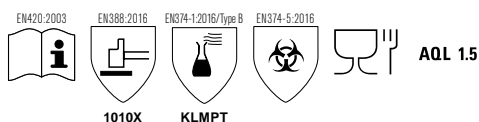


LATEX CHEMICAL RESISTANT GLOVES CHEMSTAR®

Cotton flock lined.

- Tear-resistant beaded cuff for easy donning.
- Anti-slip pattern for good grip in wet and dry conditions.
- Pure cotton flock liner to absorb perspiration.

Suitable for: Handling meat and fatty foodstuffs | Pharmaceutical industry | Cleaning | Light assembly | Laboratories.



NEW!

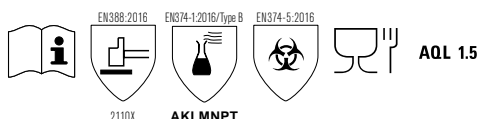


LATEX CHEMICAL RESISTANT GLOVES CHEMSTAR®

Unsupported, cotton flock lined.

- Additional neoprene layer in the palm area increases chemical resistance.
- Reliable chemical Type A protection.
- Anti-slip pattern for good grip in wet and dry conditions.
- Flexible and soft.

Suitable for: Industrial Cleaning | Petrochemical Industry | Aerospace and automobile industry | Printing industry | Food industry

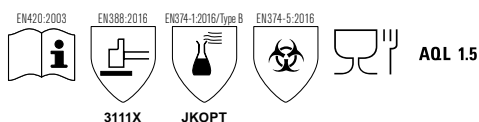


NITRILE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Interlock lined.

- Durable.
- Protection against chemicals, diesel fuel, petrol and oil.
- Good anatomical fit applied for maximum comfort.
- 3-4 times longer life-span than equivalent vinyl/PVC gloves.

Suitable for: Direct contact with all types of foodstuffs | Oil and petrochemical industry | Fishing/fish farming | Handling shellfish | Deck work etc.



CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	7 8 9 10
Material:	Vinyl/PVC
Liner:	Flocklined
Colour:	Blue
Thickness:	0,4 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/120)
Art:	111.0300

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Latex
Liner:	Flocklined
Colour:	Blue
Thickness:	0,38 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/144)
Art:	112.0122

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Latex/Neoprene
Liner:	Flocklined
Colour:	Blue, Yellow
Thickness:	0,7 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/72)
Art:	112.0700

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	7 8 9 10 11 12
Material:	Nitrile
Liner:	Interlock
Colour:	Blue
Thickness:	0,8 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (10/120)
Art:	114.0630

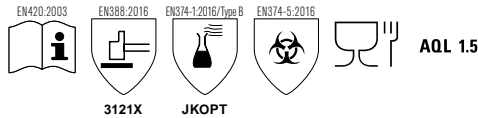


NITRILE CHEMICAL RESISTANT WINTER GLOVES CHEMSTAR®

Winter lined.

- Durable.
- Protection against cold and chemicals, diesel fuel, petrol and oil.
- Good anatomical fit applied for maximum comfort.
- 3-4 times longer life-span than equivalent vinyl/PVC gloves.

Suitable for: Direct contact with all types of foodstuffs | Fishing industry or work in wet and cold conditions.



SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Orange colour. 27 cm length.

- Tested and approved for various chemicals.
- Micro textured for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).

Suitable for: Laboratories | Chemical industry | Automotive industry | Mechanical workshops | Light assembly | Food industry.



SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Blue colour. 30 cm length.

- Double thickness compared with conventional disposable nitrile gloves.
- Textured surface for maximum grip.
- Protects against primary alcohols, saturated hydrocarbons and inorganic bases.
- Approved for medical use (EN 455).
- Silicone free.

Suitable for: Laboratories | Mechanical workshops | Janitorial firms etc.

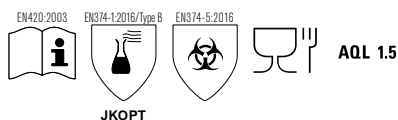


SINGLE-USE GLOVES

Nitrile, powder free. Blue colour. 30 cm length.

- Ambidextrous.
- Patented fish scale print on both sides of gloves for optimal grip.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Chemical and oil resistant.
- Tear-resistant beaded cuff for easy donning.
- Extra comfortable if used with inner glove.
- Silicone free.

Suitable for: Handling meat, fish, poultry and other fatty foods | Cleaning | Light assembly.



CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	7 8 9 10 11 12
Material:	Nitrile
Liner:	Synthetic liner
Colour:	Blue
Thickness:	Fleece+0,8 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (5/60)
Art:	114.0630W

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Nitrile
Liner:	N/A
Colour:	Orange
Thickness:	Min. 0,11 mm (palm)
Length:	27 cm
Weight:	7,2 ± 0,5 g
Packaging:	Dispenser box (10/100)
Art:	114.940

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 374:2016, 455
Category:	CE Cat. III
Sizes:	S M L XL XXL
Material:	Nitrile
Liner:	N/A
Colour:	Blue
Thickness:	0,20 ± 0,01 mm (palm)
Length:	30 cm
Weight:	11,4 ± 0,3 g
Packaging:	Dispenser box (10/50)
Art:	114.950

Granberg®

Standards:	EN 420, 374:2016, 1186
Category:	CE Cat. III
Sizes:	S M L XL XXL XXXL
Material:	Nitrile
Liner:	N/A
Colour:	Blue
Thickness:	0,20 ± 0,01 mm (palm)
Length:	29-30 cm
Weight:	11,4 ± 0,3 g
Packaging:	Inner Pack (10/48)
Art:	114.955

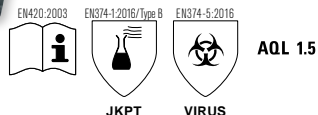


SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Black colour.

- Ambidextrous.
- Patented fish scale print on both sides of gloves for optimal grip.
- Perfect for oily, wet and dry conditions.
- Tear-resistant beaded cuff for added protection from potential chemical spills and drips.
- Extra comfortable if used with inner glove.
- Silicone free.

Suitable for: Automotive industry | Mechanical workshops | Light assembly | DIY shops | Chemical industry | Forensic work

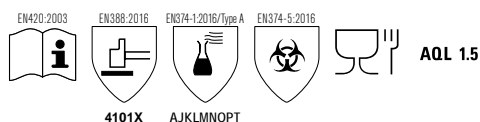


NITRILE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Unsupported, cotton flock lined.

- Specifically designed to provide high durability and protection against solvents.
- Anti-slip pattern for good grip in wet and dry conditions.
- Approved to be used in direct contact with all types of food, including fatty foods.

Suitable for: Industrial cleaning | Petrochemical Industry | Aerospace and automobile industry | Printing industry | Surface coating | Metal fabrication | Food industry.

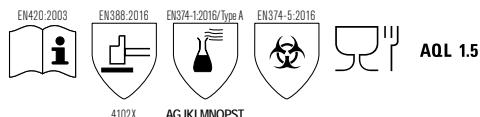


NITRILE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Unsupported. 46 cm length.

- Specifically designed to provide high durability and protection against solvents.
- Thicker gauge for increased durability.
- Textured palm for excellent grip in wet and dry conditions.
- Approved to be used in direct contact with all types of food, including fatty foods.

Suitable for: Industrial cleaning | Petrochemical Industry | Aerospace and automobile industry | Printing industry | Surface coating | Metal fabrication | Food industry.



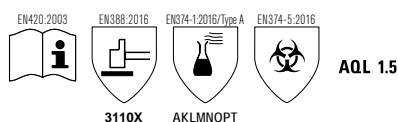
NEOPRENE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Unsupported, cotton flock lined.

- Durable.
- High chemical resistance.
- Anti-slip pattern for good grip in wet and dry conditions.
- Pure cotton flock liner to absorb perspiration.

Suitable for: Automotive Industry | Chemical Industry | Industrial Cleaning | Oil Refining.

Contains latex.



CHEMSTAR

BY GRANBERG

Standards:	EN 420, 374:2016
Category:	CE Cat. III
Sizes:	S M L XL XXL
Material:	Nitrile
Liner:	N/A
Colour:	Black
Thickness:	0.15 ± 0.03 mm (palm)
Length:	24 cm
Weight:	7.4 ± 0.3 g
Packaging:	Dispenser box (10/50)
Art:	114.970

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	7 8 9 10 11
Material:	Nitrile
Liner:	Flocklined
Colour:	Green
Thickness:	0.38 mm
Length:	33 cm
Weight:	N/A
Packaging:	Pair (12/144)
Art:	114.1000

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Nitrile
Liner:	N/A
Colour:	Green
Thickness:	0.55 mm
Length:	46 cm
Weight:	N/A
Packaging:	Pair (12/72)
Art:	114.1046

CHEMSTAR

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Neoprene
Liner:	Flocklined
Colour:	Black
Thickness:	0.75 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (6/72)
Art:	114.2000

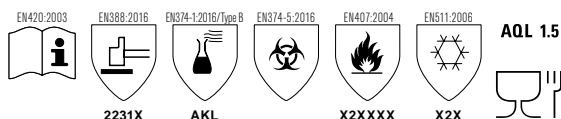


NEOPRENE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Pro-X® bonded warm acrylic liner.

- Durable and comfortable.
- Retains its softness and elasticity even in cold environment.
- High chemical resistance.
- Contact heat resistance up to 250°C for 15 seconds.
- Pro-X® bonded acrylic liner inside.

Contains latex.



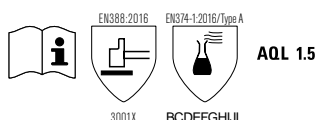
NITRILE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Unsupported, unlined.

- Special nitrile formulation to provide protection against a wide range of Ketones, such as e.g. Acetone and MEK.
- Lightweight and touch sensitive.
- Anatomically shaped for comfort.
- Minimal allergy risks.

Suitable for: Ink and paint industries | Manufacturing of gums, resins and composite material | Metal treatment using solvents | Printing Industry | Manufacture of plastics | Handling of ketones in laboratories.

Do not use the gloves in water or water-based solutions.



NEW!

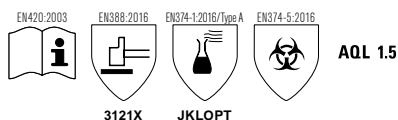


CHEMICAL RESISTANT GLOVES CHEMSTAR®

Seamless polyester liner.

- Excellent grip enables users to handle dry, wet or oily objects with ease.
- Reliable chemical Type A protection.
- Extra softness and flexibility.
- Special double-dipped sandy nitrile coating on the palm.

Suitable for: Petrochemical Industry | Aerospace and mobile industry | Printing industry | Metal fabrication | Public utilities | Industrial cleaning

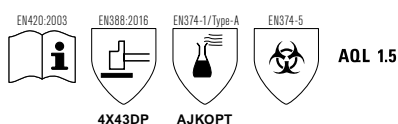


CUT D IMPACT- AND CHEMICAL RESISTANT GLOVES

Typhoon® seamless, bonded cut liner inside.

- Typhoon® cut level D liner provides 360° cut protection.
- 100% nitrile coating for optimal chemical resistance, durability and flexibility.
- Outstanding diamond grip for exceptional oil grip and added abrasion resistance.
- Powerful impact guards of Nitrile on the back-of-hand.
- Hi-vis color for increased safety.
- Wide cuff and glove length of 39 cm.

Suitable for: Workers who handle chemicals or dealing with oil-based muds, lubricants, acids etc. that need an effective all-purpose glove that also give back-of-hand impact protection and very high cut protection.



CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 407, 511, 1186
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Neoprene
Liner:	Acrylic flannel
Colour:	Black
Thickness:	0,75 mm
Length:	40 cm
Weight:	N/A
Packaging:	Pair (6/36)
Art:	114.3000

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	9 10 11
Material:	Nitrile
Liner:	Unlined
Colour:	Blue
Thickness:	0,28 mm
Length:	33 cm
Weight:	N/A
Packaging:	Pair (12/60)
Art:	114.3230

CHEMSTAR®

BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Polyester
Colour:	Blue, Black
Thickness:	N/A
Length:	35 cm
Weight:	N/A
Packaging:	Par (12/72)
Art:	114.6000

GranberG®

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Typhoon® (Fully lined)
Colour:	Green
Thickness:	N/A
Length:	39 cm
Weight:	N/A
Packaging:	Pair (6/36)
Art:	115.9011

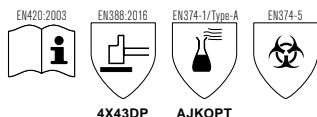


CUT D IMPACT- AND CHEMICAL RESISTANT GLOVES

Typhoon® seamless, bonded cut liner inside.

- Typhoon® cut level D liner provides 360° cut protection.
- 100% nitrile coating for optimal chemical resistance, durability and flexibility.
- Outstanding diamond grip for exceptional oil grip and added abrasion resistance.
- Powerful impact guards of Nitrile on the back-of-hand.
- Hi-vis color for increased safety.
- Wide cuff and glove length of 32 cm.

Suitable for: Workers who handle chemicals or dealing with oil-based muds, lubricants, acids etc. that need an effective all-purpose glove that also give back-of-hand impact protection and very high cut protection.



Granberg®

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Typhoon® (Fully lined)
Colour:	Green
Thickness:	N/A
Length:	32 cm
Weight:	N/A
Packaging:	Pair (6/36)
Art:	115.9012

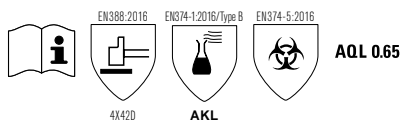


CUT- AND CHEMICAL RESISTANT VINYL/PVC GLOVES

Typhoon® liner.

- Highly durable.
- Double-dipped vinyl/PVC coating provides protection against a range of chemicals.
- Cut level D Typhoon® liner provides 360° protection.
- Outstanding grip in dry, wet and oily conditions.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishing industry and other industries where there is high risk of injury from cuts | Refining – Oil and Petrol | Handling acids, caustics and solvents | Petrochemicals | Public utilities.



CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	9 10 11 12
Material:	Vinyl/PVC
Liner:	Nylon/Lycra®
Colour:	Black, Green
Thickness:	N/A
Length:	35 cm
Weight:	N/A
Packaging:	Pair (6/60)
Art:	116.8150

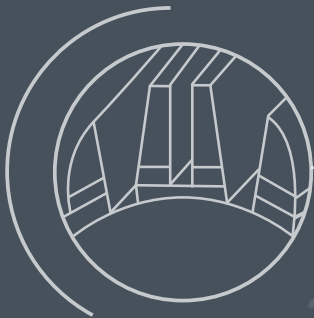




red dot award 2016
winner

Art. 115.5501

WORLD CLASS DESIGN



NITRIL

TYPHOON®



EN 388

NEW TECHNOLOGY **MAXIMUM** PERFORMANCE AND COMFORT

Made for extreme work conditions!

- Developed for optimal ergonomics:
 - very comfortable and flexible gloves of high quality.
- Equipped with soft yet powerful shock absorbing details on the back.
- Typhoon® provides excellent cut resistance.
- Durable nitrile foam coating in the palm provides excellent wet and dry grip.



IMPACT RESISTANT GLOVES



red*dot* design award

Two years in a row, Granberg received the Red Dot Design Award. The award-winning products are included in our impact protection product category.



115.9001
GRANBERG®



115.9002
GRANBERG®



115.5501
GRANBERG®



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Fit			Cut resistant	Chemical resistant	High visibility	Grip type				Other
	Tight	Normal	Loos				Coated	Dry	Wet	Oily	
113.1190		•		•				•			Natural leather
115.5501	•			•			•	•	•		Seamless
115.9001		•		•		•		•	•	•	
115.9002		•		•		•		•	•	•	Waterproof, winter lined
115.9006		•		•		•		•	•	•	For hot working conditions
115.9007	•			•		•	•	•	•	•	Seamless
115.9009	•			•		•	•	•	•	•	Seamless, fully coated
115.9011			•	•	•			•	•	•	Extra long, waterproof, high visibility
115.9012			•	•	•			•	•	•	Waterproof, high visibility

IF YOUR WORK REQUIRES MORE OF YOU, YOU SHOULD REQUIRE MORE OF YOUR GLOVES

Impact protection gloves have an extensive area of use.

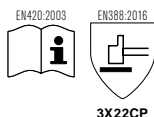
TRANSPORT OFFSHORE
LAW ENFORCEMENT
MAINTENANCE
DRILLING RAILROAD CONSTRUCTION
MINING
STEEL&METAL
SHIPPING

NEW!**IMPACT- AND CUT RESISTANT GLOVES**

Goatskin, fully Kevlar® lined.

- Impact protection on the back of the hand.
- Full Kevlar® lining protects hands from cuts.
- Impact-protective details in bright colours for increased safety.
- Sewn with Kevlar® threads.
- Comfortable and fitted.

Suitable for: Building and Construction | Oil and Gas | Heavy-duty applications.



3X22CP

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	9 10 11
Material:	Goatskin
Liner:	Kevlar® (Fully lined)
Colour:	White, Green
Length:	25-27 cm
Packaging:	Pair (6/72)
Art:	113.1190



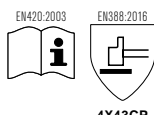
reddot design award 2016
winner

CUT RESISTANT GLOVES WITH IMPACT PROTECTION

Typhoon® fiber with nitrile foam coating.

- Designed for optimal ergonomics, very comfortable heavy-duty gloves.
- Typhoon® provides excellent cut C protection.
- Soft, but powerful impact protective details on back of hand.
- Abrasion-resistant nitrile foam coated palm provides excellent wet and dry grip.

Suitable for: Extreme working conditions within oil and gas industry | Shipping | Trawlers | Mining industry and related industries with very high demands for hand protection.



4X43CP

Design protected by patents.

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Nitrile
Liner:	Typhoon®
Colour:	Black, Grey
Length:	24-29 cm
Packaging:	Pair (6/36)
Art:	115.5501



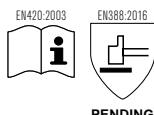
reddot design award 2015
winner

CUT F IMPACT HI-VIZ™ PROTECTIVE GLOVES

Kozane® cut resistant liner.

- Synthetic leather in palm and fingers.
- Kozane® cut resistant lining inside, exceeding EN 388 cut level F.
- G-Tech® grip material in palm/finger tips for ultimate oil grip.
- Award-winning impact protection on back-of-hand.
- Neoprene cuff provides comfort and wrist protection.
- Green silicone stripe in palm for ultimate dry- and wet grip.
- Designed for optimal ergonomics.

Suitable for: Extreme working conditions for oil and gas professionals | Extraction and refining | Mining | Shipping | Trawlers | Mining | Demolition | Rigging | Heavy construction | Tool pushing etc.



PENDING

Design protected by patents.

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	G-Tech™, MacroSkin Pro® (Palm) Spandex® (Back)
Liner:	Kozane®
Colour:	Black, Green, Yellow
Length:	25-27 cm
Packaging:	Pair (6/36)
Art:	115.9001



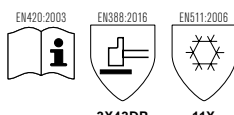
reddot design award 2015
winner

CUT D IMPACT HI-VIZ™ PROTECTIVE GLOVES

Typhoon® material and Protex™ membrane inside. Winter lined.

- Synthetic leather in palm and fingers.
- Warm fleece lining to protect against cold.
- Typhoon® cut resistant lining inside, exceeding EN 388 cut level D.
- G-Tech® grip material in palm/finger tips for ultimate oil grip.
- Protex™ wind- and waterproof, breathable membrane inside.
- Award-winning impact protection on back-of-hand.
- Neoprene cuff provides comfort and wrist protection.
- Yellow silicone stripe in palm for ultimate dry- and wet grip.
- Designed for optimal ergonomics.

Suitable for: Extreme working conditions for oil and gas professionals in cold working conditions | Extraction and refining | Mining | Shipping | Trawlers | Mining | Demolition | Rigging | Heavy construction | Tool pushing etc.



3X43DP

11X

Design protected by patents.

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	G-Tech™, MacroSkin Pro® (Palm) Spandex® (Back)
Liner:	Jersey fleece
Colour:	Black, Orange, Yellow
Length:	25-27 cm
Packaging:	Pair (6/36)
Art:	115.9002



CUT D IMPACT HI-VIZ™ PROTECTIVE GLOVES

Kozane® cut resistant material and Protex™ membrane.

- Synthetic leather in palm and fingers.
- Kozane® cut resistant lining inside, exceeding EN 388 cut level F.
- G-Tech® grip material in palm/finger tips for ultimate oil grip.
- Protex™ wind- and waterproof, breathable membrane inside.
- Award-winning impact protection on back-of-hand.
- Neoprene cuff provides comfort and wrist protection.
- Yellow silicone stripe in palm for ultimate dry- and wet grip.
- Designed for optimal ergonomics.

Suitable for: Extreme working conditions for oil and gas professionals | Extraction and refining | Mining | Shipping | Trawlers | Mining | Demolition | Rigging | Heavy construction | Tool pushing etc.



Design protected by patents.

PENDING



CUT RESISTANT IMPACT HI-VIZ™ PROTECTIVE GLOVES

Typhoon® fibre with nitrile coating, oil resistant.

- Flexible. Comfortable heavy-duty gloves.
- Typhoon® provides excellent cut protection.
- Powerful impact protective details on back of hand.
- Impact details designed for optimum ergonomics.
- Abrasion-resistant sandy nitrile palm coating provides exceptional grip.

Suitable for: Extreme working conditions for oil and gas drilling, extraction and refining | Mining | Demolition | Rigging | Heavy construction | Tool pushing etc.



Design protected by patents.

4X43CP

NEW!



CUT RESISTANT IMPACT HI-VIZ™ PROTECTIVE GLOVES

Typhoon® fibre with full nitrile coating, oil resistant.

- Flexible and comfortable heavy-duty gloves.
- Perfect for working in damp and greasy environments due to full nitrile coating.
- Abrasion-resistant sandy nitrile palm coating provides exceptional grip.
- Typhoon® provides excellent cut protection.
- Powerful impact protective details on back of hand.
- Impact details designed for optimum ergonomics.

Suitable for: Extreme working conditions for oil and gas drilling, extraction and refining | Mining | Demolition | Rigging | Heavy construction | Tool pushing etc.



Design protected by patents.

4X44CP



CUT D IMPACT- AND CHEMICAL RESISTANT GLOVES

Typhoon® seamless, bonded cut resistant liner inside.

- Typhoon® cut level D liner provides 360° cut protection.
- 100% nitrile coating for optimal chemical resistance, durability and flexibility.
- Outstanding diamond grip for exceptional oil grip and added abrasion resistance.
- Powerful impact guards of Nitrile on the back-of-hand.
- Hi-vis color for increased safety.
- Wide cuff and glove length of 39 cm.

Suitable for: Workers who handle chemicals or dealing with oil-based muds, lubricants, acids etc. that need an effective all-purpose glove that also give back-of-hand impact protection and very high cut protection.



AQL 1.5

4X43DP

AJKOPT

GranberG®

Standards: EN 420, 388:2016

Category: CE Cat. II

Sizes: 7 | 8 | 9 | 10 | 11 | 12

Material: MacroSkin Pro®, G-Tech® (Palm) Spandex® (Back)

Liner: Kozane®/Protex®

Colour: Black, Yellow

Length: 25-27 cm

Packaging: Pair (6/36)

Art: **115.9003**

GranberG®

Standards: EN 420, 388:2016

Category: CE Cat. II

Sizes: 6 | 7 | 8 | 9 | 10 | 11 | 12

Material: Nitrile

Liner: Typhoon®

Colour: Black, Grey, Green, Yellow

Length: 24-28 cm

Packaging: Pair (6/36)

Art: **115.9007**

GranberG®

Standards: EN 420, 388:2016

Category: CE Cat. II

Sizes: 6 | 7 | 8 | 9 | 10 | 11 | 12

Material: Typhoon®

Liner: Typhoon®

Colour: Black, Grey, Green, Yellow

Length: 24-28 cm

Packaging: Pair (6/36)

Art: **115.9009**

GranberG®

Standards: EN 420, 388:2016, 374:2016

Category: CE Cat. III

Sizes: 8 | 9 | 10 | 11

Material: Nitrile

Liner: Typhoon® (Fully lined)

Colour: Green

Length: 39 cm

Packaging: Pair (6/36)

Art: **115.9011**

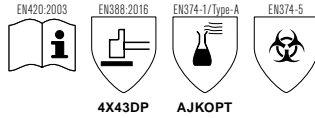


CUT D IMPACT- AND CHEMICAL RESISTANT GLOVES

Typhoon® seamless, bonded cut resistant liner inside.

- Typhoon® cut level D liner provides 360° cut protection.
- 100% nitrile coating for optimal chemical resistance, durability and flexibility.
- Outstanding diamond grip for exceptional oil grip and added abrasion resistance.
- Powerful impact guards of Nitrile on the back-of-hand.
- Hi-vis color for increased safety.
- Wide cuff and glove length of 32 cm.

Suitable for: Workers who handle chemicals or dealing with oil-based muds, lubricants, acids etc. that need an effective all-purpose glove that also give back-of-hand impact protection and very high cut protection.



Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Typhoon® (Fully lined)
Colour:	Green
Length:	32 cm
Packaging:	Pair (6/36)
Art:	115.9012



FEARLESS PERFORMANCE®



KOZANE®
Cut liner

Silicone stripe
For optimal grip

PROTEX® Membrane
inside

G-Tech
Oil Grip

TPR
Impact protection

ART 115.9003



ANTI-VIBRATION GLOVES

WHAT IS HAVS?

Hand-arm vibration syndrome (HAVS) is caused by vibration injuries from the use of hand-held vibrating tools.

This may lead to permanent health problems such as numbness of fingers, muscle weakness or white fingers.

WHAT ARE THE SYMPTOMS?

Neurological symptoms

Tingling, numbness, reduced skin sensation, reduced fine motor skills, increased "clumsiness".

Vascular symptoms

Blanching of parts or all of the fingers (white fingers), sensitivity to cold.

Musculoskeletal symptoms

Tendonitis and stiffness/reduced dexterity in fingers, swollen and painful fingers.

PREVENT HAVS

- Reduce the amount of time spent working with vibration tools.
- Use suitable low-vibration tools.
- Make sure cutting tools are kept sharp.
- Keep your hands warm and dry.
- Wear anti-vibration gloves.



Durable MacroSkin Pro® material with silicone print.

Vibration reducing material.

Soft MicroSkin Shield® material.



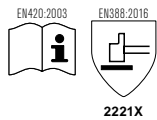
VIBRATION-REDUCING WORK GLOVES EX®

MacroSkin Pro® material with Spandex® back and Velcro closure, unlined.

- Reducing the risks of Hand-Arm Vibration Syndrome (HAVS).
- Approved according to Mechanical vibration and shock EN ISO 10819:2013 test.
- Provides protection at high frequencies combined with protection at a broad spectrum of frequencies.
- Special vibration reducing material layer in the palm.
- Comfortable and flexible.

Suitable for: Work using jackhammers, impact drills, impact wrenches, sanders, plate compactors, concrete saws and other vibrating tools.

Design protected by patents.



Standards:	EN 420, 388:2016, EN 10819:2013
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MacroSkin Pro® (Palm) Spandex® (Back)
Colour:	Black, Grey
Length:	24 cm
Packaging:	Pair (6/60)
Art:	107.4330





WINTER/ THERMAL GLOVES

THE EN 511:2006 STANDARD

When working in cold environments, the gloves you wear are just as important as the clothes you wear. It is essential to choose the right gloves to keep you warm and dry. Many of our thermal gloves are approved according to the EN 511:2006 standard. In terms of assessing thermal insulation characteristics there are three tests.

First, you test **CONVECTIVE COLD** – a test that is carried out by placing the glove on an electrically heated hand model and measuring the power required to maintain the hand at a temperature of between 30°C and 35°C when it is placed in a controlled environment.

Secondly, there is the **CONTACT COLD** test, which measures thermal insulation when the glove comes into contact with a solid cold object.

The third test measures how well the glove can **KEEP WATER OUT**. If the water does penetrate the glove within 30 minutes of exposure, it will fail.

Testing to EN 511:2006 also includes mechanical requirements based on the abrasion and tear resistance tests of EN 388 and the general requirements of EN 420.

EN 511:2006



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Chemical resistant	Waterproof	Cut resistant	Velcro closure	Suitable as liner glove	Lining material	Fit			Other
							Tight	Normal	Loose	
101.4295W				•		Cotton fleece	•			
101.9540						Synthetic		•		
101.9740						Acrylic fur		•		
103.4140						Synthetic		•		
107.4202	•						•			Touchscreen compatible
107.4260						Acrylic fur		•		
107.4297W	•	•	•			Synthetic	•			
107.4997W	•	•	•			Synthetic	•	•		
107.7114	•					Synthetic	•			
107.8112	•					Synthetic		•		
108.8080	•					Acrylic flannel	•			Seamless
108.8095						Acrylic flannel	•			Seamless
109.229	•	•				Acrylic flannel	•			
109.0400W						Acrylic flannel	•			Seamless
109.0400Y						Acrylic flannel	•			High visibility, seamless
110.0340				•			•			Seamless
110.0381				•			•			Seamless
113.1015						Cotton fleece	•			
113.1045				•		Synthetic	•			
113.1051	•					Synthetic	•			
114.0331						Acrylic flannel	•			Seamless
114.0488W						Brushed acrylic	•			Seamless
114.0630W	•	•				Synthetic	•			Oil repellent
114.3000	•	•				Acrylic flannel	•			Heat resistant, Oil repellent
114.3030						Brushed acrylic	•			Seamless
114.4272W				•		Jersey-fleece	•			Oil repellent
116.506		•	•				•			Seamless
116.580	•					Acrylic flannel	•			Seamless
120.4282						Synthetic	•			
120.4284				•		Synthetic	•			
120.4292W						Synthetic	•			
120.4294W				•		Synthetic	•			



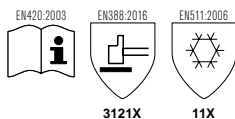
ASSEMBLY WINTER GLOVES

Pig grain leather with cotton back and Velcro closure, winter lined.

- Ideal for work that requires precision and touch sensitivity.
- Provides thermal insulation.

Suitable for: Assembly/fine work in cold conditions.

Design protected by patents.

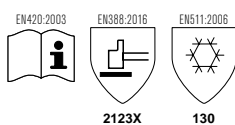


WORK WINTER GLOVES

Pig grain leather with rubberized cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.

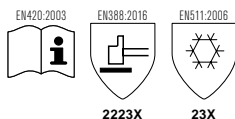
Suitable for: Outdoor work in building and construction, etc.



WORK GLOVES

Pig grain leather with pasted cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.

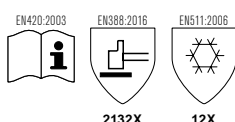


WORK WINTER GLOVES

A-grade cow grain leather with rubberized cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.

Suitable for: Outdoor work in cold environments within building and construction industry.



Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Cotton fleece (Fully lined)
Colour:	White, Black
Thickness:	0,8-0,9 mm
Length:	21-23 cm
Packaging:	Pair (12/120)
Art:	101.4295W

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	10 11 12
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Red, Beige
Thickness:	1,0-1,2 mm
Length:	27-29 cm
Packaging:	Pair (6/60)
Art:	101.9540

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 11
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Acrylic fur (Fully lined)
Colour:	Black, Beige
Thickness:	1,0-1,2 mm
Length:	27-30 cm
Packaging:	Pair (6/60)
Art:	101.9740

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 11 12
Material:	Cow grain (Palm) Cotton (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Blue, Beige
Thickness:	1,0-1,2 mm
Length:	26-29 cm
Packaging:	Pair (6/60)
Art:	103.4140

NEW!

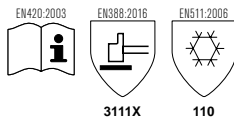


TOUCHSCREEN COMPATIBLE ASSEMBLY WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane, elastic polyester back.

- Recommended when operating with Touch Screen Devices.
- Comfortable and fitted.
- Provides protection against cold and moisture.
- Sewn-in breathable ProTex® membrane ensures water resistance.
- Reflective print on the back increases safety.
- Anti-slip pattern in the palm provides enhanced grip.

Suitable for: Touch screen applications | General assembly | Cold Storage | Outdoor work.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	MicroSkin Shield® (Palm) Polyester (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black, Green
Thickness:	N/A
Length:	22-26 cm
Packaging:	Pair (12/144)
Art:	107.4202

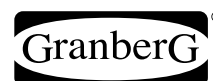
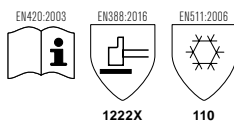


WORK WINTER GLOVES

Synthetic Anacord, winter lined.

- Comfortable and flexible.
- Provides good thermal insulation.

Suitable for: Fork-lift driving | Work in freezer rooms, etc.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 10
Material:	Synthetic leather
Liner:	Acrylic fur (Fully lined)
Colour:	Black
Thickness:	0.9-1.1 mm
Length:	31 cm
Packaging:	Pair (6/60)
Art:	107.4260



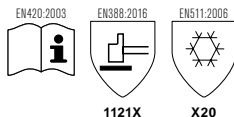
ASSEMBLY WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane and Spandex® back, Velcro closure.

- Provides protection against cold and moisture.
- Warm and soft liner inside the gloves.
- Sewn-in thermal, waterproof and breathable ProTex® membrane.
- Highly flexible.
- Excellent grip.
- Machine washable. Drip dry.

Suitable for: Assembly work and outdoor tasks in wet and/or cold weather.

Design protected by patents.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black, Grey
Thickness:	N/A
Length:	21-24 cm
Packaging:	Pair (12/120)
Art:	107.4297W

NEW!

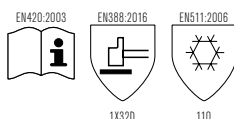


CUT-RESISTANT WINTER GLOVES EX®

MicroSkin Shield®, Spandex® back of hand, ProTex® membrane, Velcro closure.

- Provide protection against cold and moisture.
- Cut-resistant layer of Typhoon® in the palm.
- Waterproof ProTex® membrane with excellent breathability.
- Warm and soft lining.
- Highly flexible
- Excellent grip.

Suitable for: Outdoor work involving risk of cut injuries and performed in cold and/or wet weather.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Typhoon®/Synthetic liner/Protex® membrane
Colour:	Black, Grey
Thickness:	N/A
Length:	21-24 cm
Packaging:	Pair (12/72)
Art:	107.4997W

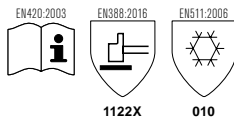


ALL-ROUND WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane, neoprene back.

- Provides protection against cold and moisture.
- Good grip and flexibility.
- Palm and thumb-base reinforcement.
- Sewn-in thermal, waterproof and breathable ProTex® membrane.
- Warm and soft fleece liner inside the glove.
- Machine washable. Drip dry.

Suitable for: Assembly work and other tasks in cold environments with high requirements to mobility, flexibility and grip.



1122X 010

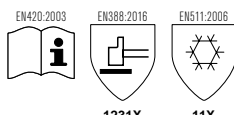


ALL-ROUND WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane, Spandex® back.

- Flexibility and good grip.
- Provides protection against cold and moisture.
- Sewn-in thermal, waterproof and breathable ProTex® membrane.
- Warm and soft liner inside the gloves.
- Palm and thumb-base reinforcement.
- Reflectives around the cuff.
- Machine washable. Drip dry.

Suitable for: Assembly work and other tasks in cold environments with high requirements to mobility, flexibility and grip.



1231X 11X

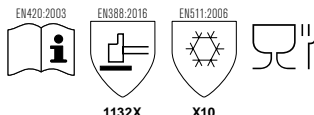


ASSEMBLY WINTER GLOVES

Double latex coating, waterproof.

- Comfortable and durable.
- Coated with a thin layer of blue waterproof latex coating.
- Black sandy latex foam overlip ensures excellent wet, dry and oily grip.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Good dexterity and fit.
- Provides good thermal insulation.

Suitable for: Assembly work and other tasks in cold environments with high requirements to mobility, flexibility and grip.



1132X X10

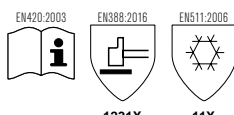


KNITTED WINTER GLOVES

Latex foam coating.

- Flexible and comfortable.
- Good grip and long life-span.
- Provides good thermal insulation.

Suitable for: Building, handicraft and handling of goods in cold environments.



1231X 11X



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Neoprene (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black, Grey
Thickness:	N/A
Length:	26-28 cm
Packaging:	Pair (6/60)
Art:	107.7114



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black
Thickness:	N/A
Length:	26-29 cm
Packaging:	Pair (6/60)
Art:	107.8112



Standards:	EN 420, 388:2016, 511, 1186
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Lateks
Liner:	Acrylic flannel (Fully lined)
Colour:	Blue, Black
Thickness:	N/A
Length:	24-29 cm
Packaging:	Pair (12/144)
Art:	108.8080



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 10 11 12
Material:	Lateks
Liner:	Acrylic flannel
Colour:	Blue, Grey
Thickness:	N/A
Length:	25-29 cm
Packaging:	Pair (12/120)
Art:	108.8095



VINYL/PVC CHEMICAL RESISTANT WINTER GLOVES CHEMSTAR®

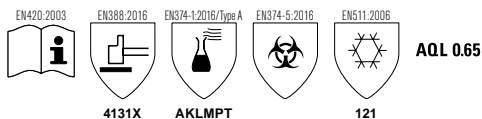
Removable acrylic flannel liner.

- Highly durable.
- Comfortable and flexible.
- Remains soft in temperatures as low as - 20°C.
- Resistant to petrol, diesel and many chemicals.
- Liner can be washed/dried separately.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Fishermen | Cold storage work | Outdoor winter work.

May not be used in direct contact with fatty foods.

If working with fatty foods use Granberg® nitrile gloves.

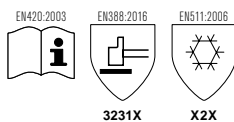


ASSEMBLY WINTER GLOVES BLACK DIAMOND, OEKO-TEX® 100 APPROVED

Special vinyl/PVC foam coating.

- Durable.
- Outstanding dexterity and fit.
- Tested and approved for cold conditions.
- The vinyl/PVC coating technology is a patented process.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly work and jobs in wet, oily and cold conditions

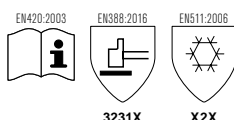


ASSEMBLY WINTER GLOVES BLACK DIAMOND

Special vinyl/PVC foam coating. Hi-Viz™ yellow colour.

- Durable.
- Tested and approved for cold conditions.
- The vinyl/PVC coating technology is a patented process.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Assembly work and jobs in wet, oily and cold conditions where visibility is the highest priority.



KNITTED WINTER GLOVES

Thermolite® hollow-core fibre.

- Wicks perspiration away from your skin, while the inner layer remains warm and dry.
- Shrink-resistant, machine washable.
- High thermal insulation.

Suitable for: Commercial fishing | Refrigerated warehousing | Construction and regular outdoor utility work.

Thermolite® is a registered trademark of DuPont.



CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 511
Category:	CE Cat. III
Sizes:	9 10
Material:	Vinyl/PVC
Liner:	Acrylic flannel
Colour:	Blue
Thickness:	N/A
Length:	31 cm
Packaging:	Pair (10/60)
Art:	109.229

Black Diamond®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Vinyl/PVC
Liner:	Acrylic flannel
Colour:	Black
Thickness:	N/A
Length:	24-27 cm
Packaging:	Pair (12/144)
Art:	109.0400W

Black Diamond®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 10 11
Material:	Vinyl/PVC
Liner:	Acrylic flannel
Colour:	Yellow
Thickness:	N/A
Length:	24-27 cm
Packaging:	Pair (12/144)
Art:	109.0400Y

Granberg®

Standards:	EN 420
Category:	CE Cat. I
Sizes:	8.5 11
Material:	Thermolite®
Liner:	N/A
Colour:	Blue
Thickness:	N/A
Length:	23 cm
Packaging:	Pair (12/144)
Art:	110.0340

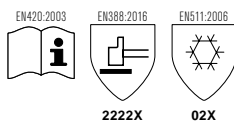
NEW!**KNITTED WINTER GLOVES****Acrylic.**

- Provides good thermal insulation.
- Well fitted and soft.
- Great as a liner.
- Ambidextrous.
- Machine washable at 30° C.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).

Suitable for: Cold storage | Refrigerated warehousing | Regular outdoor utility work.

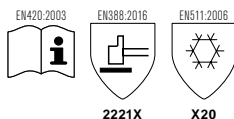
**ASSEMBLY WINTER GLOVES****Goatskin, fleece lined.**

- Goatskin leather is soft, flexible and touch sensitive.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Strong leather makes the gloves very durable.
- Fleece lined for warmth and additional comfort.

**ASSEMBLY WINTER GLOVES****Goatskin, winter lined.**

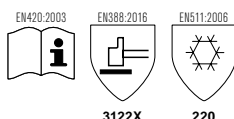
- Comfortable and fitted.
- Soft and strong goat skin leather provides the gloves excellent dexterity and touch sensitivity.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Polyester back and Velcro closure.

Suitable for: Assembly/fine work in cold conditions.

**WORK WINTER GLOVES****Goatskin, wind- and waterproof.**

- Leather glove features combined with advantages ProTex® wind-and waterproof, breathable membrane.
- The sewn-in ProTex® membrane keeps hands warm and dry when working.
- Soft and durable goatskin in the palm and Spandex® on back of hand.
- Provides very good thermal insulation.

Suitable for: Construction | Heavy duty work | Shipping | Cold Storage | Outdoor winter use | Damp, windy, cold environments.

**Granberg®**

Standards:	EN 420, 1186
Category:	CE Cat. I
Sizes:	8 10
Material:	Acrylic
Liner:	N/A
Colour:	Grey
Thickness:	N/A
Length:	23-25 cm
Packaging:	Pair (12/240)
Art:	110.0381

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin (Palm) Cotton (Back)
Liner:	Cotton fleece (Fully lined)
Colour:	White, Grey
Thickness:	0,6-0,9 mm
Length:	23-27 cm
Packaging:	Pair (12/120)
Art:	113.1015

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	White, Grey
Thickness:	N/A
Length:	22-25 cm
Packaging:	Pair (12/120)
Art:	113.1045

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Goatskin (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	White, Grey
Thickness:	0,85-0,95 mm
Length:	24-29 cm
Packaging:	Pair (6/72)
Art:	113.1051

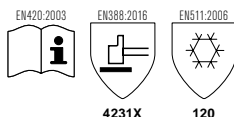


ASSEMBLY WINTER GLOVES

Sandy nitrile coating, knuckle dipped, fleece liner.

- High durability and abrasion resistance.
- Provides good thermal insulation.
- Good dexterity and fit.
- Excellent wet, dry and oily grip.

Suitable for: Construction business | General assembly | Cold Storage | Outdoor winter use.



4231X 120



ASSEMBLY WINTER GLOVES

Special nitrile foam coating.

- Durable.
- Warm, fitted and very comfortable.
- Warm brushed acrylic on inside, strong nylon outer shell.

Suitable for: Refrigerated display counter and cold storage rooms | Outdoor assembly | Inspections | Handling small parts.



4131X

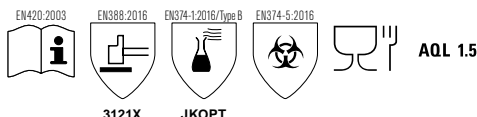


NITRILE CHEMICAL RESISTANT WINTER GLOVES CHEMSTAR®

Winter lined.

- Durable.
- Protection against cold and chemicals, diesel fuel, petrol and oil.
- Good anatomical fit applied for maximum comfort.
- 3-4 times longer life-span than equivalent vinyl/PVC gloves.

Suitable for: Direct contact with all types of foodstuffs | Fishing industry or work in wet and cold conditions.



3121X

JKOPT

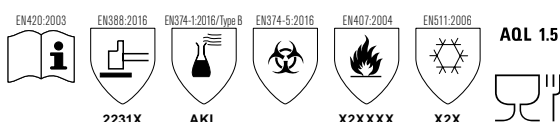


NEOPRENE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Pro-X® bonded warm acrylic liner.

- Durable and comfortable.
- Retains its softness and elasticity even in cold environment.
- High chemical resistance.
- Contact heat resistance up to 250°C for 15 seconds.
- Pro-X® bonded acrylic liner inside.

Contains latex.



2231X

AKL

X2XXXX

X2X



Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Acrylic flannel
Colour:	Black
Thickness:	N/A
Length:	25-29 cm
Packaging:	Pair (12/144)
Art:	114.0331

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Nitrile
Liner:	Brushed acrylic
Colour:	Blue, Black
Thickness:	N/A
Length:	24-27 cm
Packaging:	Pair (12/144)
Art:	114.0488W

CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	7 8 9 10 11 12
Material:	Nitrile
Liner:	Synthetic liner
Colour:	Blue
Thickness:	Fleece+0.8 mm
Length:	30 cm
Packaging:	Pair (5/60)
Art:	114.0630W

CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 407, 511, 1186
Category:	CE Cat. III
Sizes:	8 9 10
Material:	Neoprene
Liner:	Acrylic flannel
Colour:	Black
Thickness:	0,75 mm
Length:	40 cm
Packaging:	Pair (6/36)
Art:	114.3000

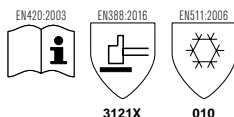


ASSEMBLY WINTER GLOVES

Nitrile microporous foam coating.

- Comfortable and durable.
- 3/4 coated with nitrile ultra-thin microporous foam.
- Coating ensures excellent wet, dry and oil grip.
- Provides good thermal insulation.
- Tight fitting increases the glove dexterity.

Suitable for: Construction business | Heavy duty work | Assembly of components | Shipping | Oil and gas industry | Cold Storage | Outdoor winter use.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Nitrile
Liner:	Brushed acrylic, Polyester
Colour:	Black
Thickness:	N/A
Length:	23-29 cm
Packaging:	Pair (12/144)
Art:	114.3030

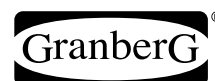
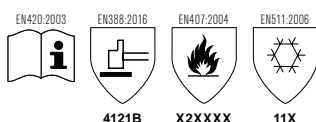


ASSEMBLY WINTER GLOVES

Full nitrile microfoam coating, fleece liner.

- High durability, dexterity and tactile sensitivity.
- Resistant to contact heat up to 250°C for 15 seconds.
- Provides good thermal insulation.
- Water and oil repellent.
- A great alternative to leather driver's gloves.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics when handling hot parts | Cold Storage | Outdoor winter use.



Standards:	EN 420, 388:2016, 407, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Nitrile
Liner:	Jersey fleece
Colour:	Blue
Thickness:	N/A
Length:	23-26 cm
Packaging:	Pair (12/144)
Art:	114.4272W

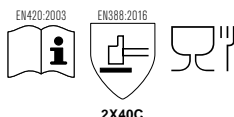


CUT RESISTANT WARM INNER GLOVES

Typhoon®.

- Warm inner gloves.
- Highly recommended as a cut resistant liner glove with single-use gloves and reusable gloves.
- Cut resistance barrier combined with finger sensitivity.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Ambidextrous.

Suitable for: Cold environments | Use in meat industries, catering, fish processing industries and other food industries where knives or other sharp objects are handled.



Standards:	EN 420, 388:2016, 1186
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Typhoon®
Liner:	N/A
Colour:	Blue
Thickness:	N/A
Length:	30-35 cm
Packaging:	Pair (6/72)
Art:	116.506

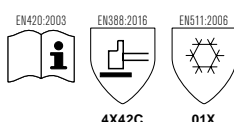


CUT RESISTANT WINTER GLOVES

Typhoon® fibre with sandy nitrile coating.

- Highly durable. Soft and flexible gloves with long life.
- Very comfortable and warm gloves with good grip.
- Brushed acrylic interior that provides warmth almost on par with wool.

Suitable for: Use in cold environments with a high risk of cuts.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 10 11 12
Material:	Nitril
Liner:	Typhoon®/Acrylic flannel
Colour:	Blue, Black
Thickness:	N/A
Length:	25-29 cm
Packaging:	Pair (12/48)
Art:	116.580

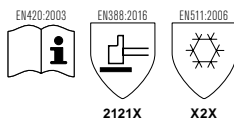


ASSEMBLY WINTER GLOVES

MacroSkin Pro® with elastic polyester back, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use | Gardening | Retail.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4282

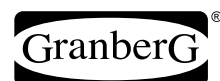
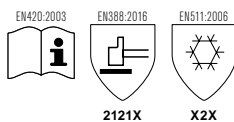


ASSEMBLY WINTER GLOVES

MacroSkin Pro® with elastic polyester back with Velcro closure, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use | Gardening | Retail.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Pink
Thickness:	N/A
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4284

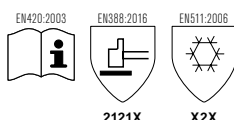


ASSEMBLY WINTER GLOVES EX®

MacroSkin Pro® with elastic polyester back, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use.



Standards:	EN 420, 388:2003, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4292W

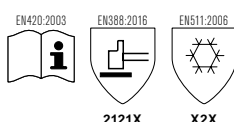


ASSEMBLY WINTER GLOVES EX®

MacroSkin Pro® with elastic polyester back with Velcro closure, winter lined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.
- Provides good thermal insulation.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics | Cold Storage | Outdoor winter use.



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4294W



ART. 114.610

MAGIC TOUCH®
BY GRANBERG



ART. 114.611


2,2 grams



ART. 114.612

A series of superlight single use gloves approved for handling of all types of food – including fatty food.

Product details, see page 56 and 57.



SINGLE-USE GLOVES

CONSIDER THIS

when using single-use gloves;

- Make sure that the gloves are tested, labelled and intended for the application.
- Choose the right size.
- Change gloves regularly.
- Make sure your hands are dry before putting on single-use gloves.
- Keep your nails short.
- Avoid wearing rings on your fingers.
- Powder-free gloves reduce the risk of transporting bacteria.
- Use the right technique when you take off your gloves. See page 61.

RELATED FACTS

Single-use glove materials

Get to know the behaviour of T.E.P., vinyl, nitrile and latex gloves and the different effects of using gloves of the various materials.

See page 108.

Testing and approvals

Understand the EN product standards. Learn more about permeation and penetration levels, bacteriological and chemical risks, food handling, etc.

See page 104.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Length (cm)	Weight (g)	Colour	Glove material				Powder free	Accelerator free	Food approved	Medical approved	Chemical resistant ²
				T.E.P.	PVC / Vinyl	Nitrile	Latex					
111.0092	25	1,9±0,1	Clear	•				•		•	•	
111.220	25	5,4±0,03	Clear		•			•		• ¹	•	•
111.225	25	4,6±0,03	Clear		•			•		• ¹		
111.325	25	5,4±0,03	Blue		•			•		• ¹	•	•
111.420	25	5,4±0,03	White		•			•		• ¹	•	•
112.110	25	6,0±0,5	Off-white				•	•		•	•	
114.610	24	2,2±0,2	Black			•		•		•		
114.611	24	2,2±0,2	Blue			•		•		•		
114.615	29,5	5,0±0,5	Indigo		•			•	•	•	•	•
114.616	25	3,2±0,5	Indigo		•			•	•	•	•	•
114.620	25	3,5±0,5	White			•		•		•	•	•
114.621	25	4,2±0,5	Indigo			•		•	•	•	•	•
114.622	25	3,5±0,5	Indigo			•		•		•	•	•
114.624	24	3,5±0,02	Indigo			•		•		•		
114.626	25	3,2±0,5	Indigo			•		•		•	•	•
114.628	25	3,5±0,03	Black			•		•		•	•	•
114.636	25	3,2±0,5	Indigo			•		•		•	•	•
114.770	25	5,8±0,2	Blue			•		•		•	•	•
114.880	25	5,8±0,2	Black			•		•		•	•	•
114.940	27	7,2±0,5	Orange			•		•		•	•	•
114.950	30	11,4±0,3	Blue			•		•			•	•
114.955	29-30	11,4±0,3	Black			•		•		•		•
114.970	24	7,4±0,3	Black			•		•				•

¹ Should NOT be used in direct contact with fatty foods.

² Please check our online chemical database to find the right gloves to protect you from the chemical you plan to use.



SINGLE-USE GLOVES

Thermo Elastic Polymer (T.E.P.), powder-free. Clear colour.

- Phthalates and silicone free.
- Good tactile sensation.
- Approved for contact with all kinds of food including fatty foods (EN 1186).
- Approved for medical use (EN 455).
- Odourless.
- Reduced waste due to more than 60% reduced glove thickness compared to vinyl.
- Up to more than 400% more gloves per box compared to vinyl.
- Tensile strength (before and after aging): min 12 Mpa.
- Median force at break: min 3,8-4,0 N.

Suitable for: Horeca | Food and beverage industry etc. | Healthcare sector | Medical use | Cleaning.



AQL 1.5



Standards:	EN 455, 1186
Category:	N/A
Sizes:	S M L XL
Material:	Thermo Elastic Polymer
Colour:	Clear
Thickness:	0.036 ± 0.001 mm (palm)
Length:	25 cm
Weight:	1,9 ± 0,1 g
Packaging:	Dispenser box (10/200)
Art:	111.0092



SINGLE-USE GLOVES

Vinyl/PVC, powder-free. Clear colour.

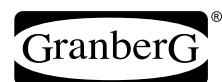
- Comfortable.
- Does not provoke latex allergic reaction.
- Approved for medical use (EN 455).
- Silicone free.

May not be used in direct contact with fatty foods.

If working with fatty foods use Granberg® nitrile disposable gloves.



AQL 1.5



Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Vinyl/PVC
Colour:	Clear
Thickness:	0.11 mm (palm)
Length:	26 cm
Weight:	5,4 ± 0,03 g
Packaging:	Dispenser box (10/100)
Art:	111.220



SINGLE-USE GLOVES ULTRASOFT

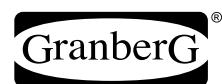
Vinyl/PVC, powder-free. Clear colour.

- Comfortable.
- Does not provoke latex allergic reaction.
- Silicone free.

May not be used in direct contact with fatty foods.

If working with fatty foods use Granberg® nitrile disposable gloves.

Not approved for medical use.



Standards:	EN 1186
Category:	N/A
Sizes:	S M L XL
Material:	Vinyl/PVC
Colour:	Clear
Thickness:	0.08 mm (palm)
Length:	25 cm
Weight:	4,6 ± 0,03 g
Packaging:	Dispenser box (10/100)
Art:	111.225



SINGLE-USE GLOVES

Vinyl/PVC, powder-free. Blue colour.

- Comfortable.
- Does not provoke latex allergic reaction.
- Approved for medical use (EN 455).
- Silicone free.

May not be used in direct contact with fatty foods.

If working with fatty foods use Granberg® nitrile disposable gloves.



AQL 1.5



Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Vinyl/PVC
Colour:	Blue
Thickness:	0.11 mm (palm)
Length:	25 cm
Weight:	5,4 ± 0,03 g
Packaging:	Dispenser box (10/100)
Art:	111.325



SINGLE-USE GLOVES

Synthetic, powder-free. White colour.

- Sensitivity/flexibility equivalent to single-use latex gloves.
- Does not contain natural latex.
- Does not contain nitrile.
- Stronger than normal single-use vinyl/PVC gloves.
- Approved for medical use (EN 455).
- Silicone free.

May not be used in direct contact with fatty foods.

If working with fatty foods use Granberg® nitrile disposable gloves.



Granberg®

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Vinyl/PVC
Colour:	White
Thickness:	0.11 mm (palm)
Length:	25 cm
Weight:	5.4 ± 0.03 g
Packaging:	Dispenser box (10/100)
Art:	111.420



SINGLE-USE GLOVES

Latex, powder-free. Off-white colour.

- Micro textured for improved grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).

Suitable for: Direct contact with all types of foodstuffs | Medical use



Granberg®

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Latex
Colour:	Off-white
Thickness:	Min 0.10 mm (palm)
Length:	25 cm
Weight:	6.0 ± 0.5 g
Packaging:	Dispenser box (10/100)
Art:	112.110

NEW!



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder free. Black colour.

- Lightweight and elastic.
- Enhanced finger sensitivity and dexterity.
- Great alternative to vinyl single use gloves.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Silicone free.
- Economy pack, 200 gloves per dispenser.

Suitable for: Direct contact with all types of foodstuffs.

Not approved for medical use.



MAGIC TOUCH®
BY GRANBERG

Standards:	EN 1186
Category:	N/A
Sizes:	XS S M L XL
Material:	Nitrile
Colour:	Black
Thickness:	Min 0.03 mm (palm)
Length:	24 cm
Weight:	2.2 ± 0.2 g
Packaging:	Dispenser box (10/200)
Art:	114.610

NEW!



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder free. Dark blue colour.

- Lightweight and elastic.
- Enhanced finger sensitivity and dexterity.
- Great alternative to vinyl single use gloves.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Silicone free.
- Economy pack, 200 gloves per dispenser.

Suitable for: Direct contact with all types of foodstuffs.

Not approved for medical use.



MAGIC TOUCH®
BY GRANBERG

Standards:	EN 1186
Category:	N/A
Sizes:	XS S M L XL
Material:	Nitrile
Colour:	Blue
Thickness:	Min 0.03 mm (palm)
Length:	24 cm
Weight:	2.2 ± 0.2 g
Packaging:	Dispenser box (10/200)
Art:	114.611

NEW!**SINGLE-USE GLOVES MAGIC TOUCH®**

Soft Nitrile™, powder free. White colour.

- Lightweight and elastic.
- Enhanced finger sensitivity and dexterity.
- Great alternative to vinyl single use gloves.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Silicone free.
- Economy pack, 200 gloves per dispenser.

Suitable for: Direct contact with all types of foodstuffs.

Not approved for medical use.


MAGIC TOUCH®
BY GRANBERG

Standards:	EN 1186
Category:	N/A
Sizes:	S M L XL
Material:	Nitrile
Colour:	White
Thickness:	Min 0.03 mm (palm)
Length:	24 cm
Weight:	2.2 ± 0.2 g
Packaging:	Dispenser box (10/200)
Art:	114.612

**ACCELERATOR-FREE****SINGLE-USE GLOVES MAGIC TOUCH®**

Soft Nitrile™, powder-free. Accelerators free. Indigo colour. 29,5 cm length.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- 100% without chemical accelerators.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved for medical use (EN 455).
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Tested according to ASTM D6978-05 - Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.
- Silicone free.

Suitable for: Direct contact with all types of foodstuffs | Medical use.



RECOMMENDED BY


MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min 0.06 mm (palm)
Length:	29,5 cm
Weight:	5.0 ± 0.5 g
Packaging:	Dispenser box (10/100)
Art:	114.615

NEW!**ACCELERATOR-FREE****SINGLE-USE GLOVES MAGIC TOUCH®**

Soft Nitrile™, powder-free. Accelerators free. Indigo colour.

- Soft and strong nitrile.
- The thinnest glove in Granberg's Accelerators Free gloves range.
- 100% without chemical accelerators.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved for medical use (EN 455).
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Tested according to ASTM D6978-05 - Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.
- Does not contain silicone.

Suitable for: Direct contact with all types of foodstuffs | Medical use


MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min 0.05 mm (palm)
Length:	25 cm
Weight:	3.2 ± 0.5 g
Packaging:	Dispenser box (10/100)
Art:	114.616

**SINGLE-USE GLOVES MAGIC TOUCH®**

Soft Nitrile™, powder-free. White colour.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved for medical use (EN 455).
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Silicone free.

Suitable for: Direct contact with all types of foodstuffs | Medical use.


MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Nitrile
Colour:	White
Thickness:	Min 0.06 mm (palm)
Length:	25 cm
Weight:	3.5 ± 0.5 g
Packaging:	Dispenser box (10/100)
Art:	114.620



ACCELERATOR-FREE

SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder-free. Accelerators free. Indigo colour.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- 100% without chemical accelerators.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved for medical use (EN 455).
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Tested according to ASTM D6978-05 - Resistance of Medical Gloves to Permeation by Chemotherapy Drugs.
- Silicone free.

Suitable for: Direct contact with all types of foodstuffs | Medical use.



RECOMMENDED BY



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder-free. Indigo colour.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved for medical use (EN 455).
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).

Suitable for: Direct contact with all types of foodstuffs | Medical use.



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder-free. Indigo colour.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Economy pack, 200 gloves per dispenser.

Suitable for: Direct contact with all types of foodstuffs.



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder free. Indigo colour.

- Soft and strong nitrile.
- Thinner than similar gloves, nearly same elasticity and touch sensitivity as latex.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).
- Silicone free.
- Economy pack, 300 gloves per dispenser.
- Also available in 10 pcs retail packaging (art. 114.636).
- Inneholder ikke silikon.

Suitable for: Direct contact with all types of foodstuffs | Medical use.

XL: 10 boxes (270 per box). Available in retail packaging, art. 114.636.



MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min 0.06 mm (palm)
Length:	25 cm
Weight:	4,2 ± 0,5 g
Packaging:	Dispenser box (10/100)
Art:	114.621

MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min 0.05 mm (palm)
Length:	24 cm
Weight:	3,5 ± 0,5 g
Packaging:	Dispenser box (10/100)
Art:	114.622

MAGIC TOUCH®
BY GRANBERG

Standards:	EN 1186
Category:	N/A
Sizes:	S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	0.07 ± 0.02 mm (palm)
Length:	24 cm
Weight:	3,5 ± 0,5 g
Packaging:	Dispenser box (10/200)
Art:	114.624

MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min 0.05 mm (palm)
Length:	24 cm
Weight:	3,2 ± 0,5 g
Packaging:	Dispenser box (10/300)
Art:	114.626



SINGLE-USE GLOVES MAGIC TOUCH®

Soft Nitrile™, powder-free. Black colour.

- Soft and strong nitrile.
- Thinner than similar gloves, with nearly the same elasticity and touch sensitivity as latex.
- Micro-textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Black colour especially suited for tattoo studios, police, funeral parlours and security firms.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).
- Silicone free.

Suitable for: Assembly in the electronics industry | Handling of photographic film | Optics and laboratories | Tattoo studios | Police | Funeral parlours | Security firms.



SINGLE-USE GLOVES MAGIC TOUCH®

Nitrile, powder free. Indigo colour.

- 10 pcs retail packaging.
- Soft and strong nitrile.
- Thinner than similar gloves, nearly same elasticity and touch sensitivity as latex.
- Micro textured fingertips for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).
- Silicone free.

Suitable for: Direct contact with all types of foodstuffs | Medical use.



SINGLE-USE GLOVES

Nitrile, powder-free. Blue colour.

- Micro textured for optimum grip.
- Tested and approved for various chemicals.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).

Standards: Direct contact with all types of foodstuffs | Medical use.



SINGLE-USE GLOVES

Nitrile, powder-free. Black colour.

- High strength and elasticity.
- Black colour especially suited for tattoo studios, police, funeral parlours and security firms.
- Tested and approved for various chemicals.
- Micro textured for optimum grip.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).

Standards: Assembly in the electronics industry | Handling of photographic film | Optics and laboratories | Tattoo studios | Police | Funeral parlours and security firms.



MAGIC TOUCH®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	N/A
Sizes:	S M L XL
Material:	Nitrile
Colour:	Black
Thickness:	Min. 0.06 mm (palm)
Length:	25 cm
Weight:	3,5 ± 0,03 g
Packaging:	Dispenser box (10/100)
Art:	114.628

GranberG®

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	M L XL
Material:	Nitrile
Colour:	Indigo
Thickness:	Min. 0.05 mm (palm)
Length:	24 cm
Weight:	3,2 ± 0,5 g
Packaging:	Dispenser box (10/120)
Art:	114.636

GranberG®

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL XXL
Material:	Nitrile
Colour:	Blue
Thickness:	0.12 ± 0.02 mm (palm)
Length:	25 cm
Weight:	5,8 ± 0,2 g
Packaging:	Dispenser box (10/100)
Art:	114.770

GranberG®

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL XXL
Material:	Nitrile
Colour:	Black
Thickness:	0.12 ± 0.02 mm (palm)
Length:	25 cm
Weight:	5,8 ± 0,2 g
Packaging:	Dispenser box (10/100)
Art:	114.880



SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Orange colour. 27 cm length.

- Tested and approved for various chemicals.
- Micro textured for optimum grip.
- Resistant to grease, fats, detergents, etc.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Approved for medical use (EN 455).

Suitable for: Laboratories | Chemical industry | Automotive industry | Mechanical workshops | Light assembly | Food industry.



CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 374:2016, 455, 1186
Category:	CE Cat. III
Sizes:	S M L XL
Material:	Nitrile
Colour:	Orange
Thickness:	Min. 0.11 mm (palm)
Length:	27 cm
Weight:	7,2 ± 0,5 g
Packaging:	Dispenser box (10/100)
Art:	114.940



SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Blue colour. 30 cm length.

- Double thickness compared with conventional disposable nitrile gloves.
- Textured surface for maximum grip.
- Protects against primary alcohols, saturated hydrocarbons and inorganic bases.
- Approved for medical use (EN 455).
- Silicone free.

Suitable for: Laboratories | Mechanical workshops | Janitorial firms etc.

50 gloves per box, 500 pcs per carton.



CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 374:2016, 455
Category:	CE Cat. III
Sizes:	S M L XL XXL
Material:	Nitrile
Colour:	Blue
Thickness:	0.20 ± 0.01 mm (palm)
Length:	30 cm
Weight:	11,4 ± 0,3 g
Packaging:	Dispenser box (10/50)
Art:	114.950

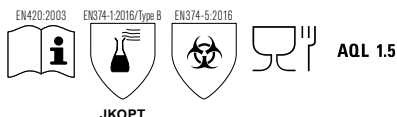


SINGLE-USE GLOVES

Nitrile, powder free. Blue colour. 30 cm length.

- Ambidextrous.
- Patented fish scale print on both sides of gloves for optimal grip.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Chemical and oil resistant.
- Tear-resistant beaded cuff for easy donning.
- Extra comfortable if used with inner glove.
- Silicone free.

Suitable for: Handling meat, fish, poultry and other fatty foods | Cleaning | Light assembly.



GranberG®

Standards:	EN 420, 374:2016, 1186
Category:	CE Cat. III
Sizes:	S M L XL XXL XXXL
Material:	Nitrile
Colour:	Blue
Thickness:	0.20 ± 0.01 mm (palm)
Length:	29-30 cm
Weight:	11,4 ± 0,3 g
Packaging:	Inner Pack (10/48)
Art:	114.955

NEW!

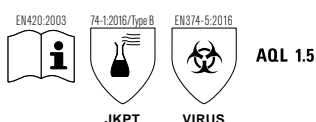


SINGLE-USE CHEMICAL RESISTANT GLOVES CHEMSTAR®

Nitrile, powder free. Black colour.

- Ambidextrous.
- Patented fish scale print on both sides of gloves for optimal grip.
- Perfect for oily, wet and dry conditions.
- Tear-resistant beaded cuff for added protection from potential chemical spills and drips.
- Extra comfortable if used with inner glove.
- Silicone free.

Suitable for: Automotive industry | Mechanical workshops | Light assembly | DIY shops | Chemical industry | Forensic work



CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 374:2016
Category:	CE CAT. III
Sizes:	S M L XL XXL
Material:	Nitrile
Colour:	Black
Thickness:	0.15 ± 0.03 mm (palm)
Length:	24 cm
Weight:	7,4 ± 0,3 g
Packaging:	Dispenser box (10/50)
Art:	114.970

HOW TO SAFELY REMOVE YOUR SINGLE-USE GLOVES

(THE HYGIENIC METHOD)



Grab the outside of glove **A** by the wrist, slightly below the opening.

Avoid touching bare skin with the glove fingers or let bare skin get in contact with the outside of the glove.

Pull the glove towards the hand.



Pull glove **A** towards and over the fingers so that you turn it inside out.

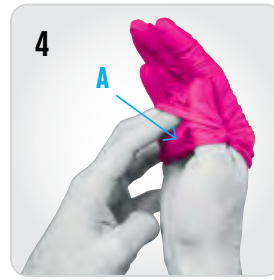
Pull the glove inside out until it clears the hand.



Hold glove **A** in the palm of the other hand.

Slip a few fingers from the other hand under the rim of glove **B**.

Avoid touching the outside of the glove with bare fingers or let the outside of the glove get in contact with bare skin.



With the bare fingers still on the inside of glove **B**, "peel" it off the hand by turning it inside out with the fingers so that it covers glove **A**.



Make sure that glove **B** encapsulates glove **A** completely so that only the inside of glove **B** is visible.

Pull glove **B** with the inside out completely of the hand.

Dispose of the gloves in a proper manner.





LIQUID PROOF GLOVES

EMBRACING THE NORWEGIAN FISHING EXPERTISE TO DEVELOP A COMPLETE GLOVE RANGE

The oil, gas and fishing industries are the largest export sectors in Norway. They consist of many different branches and comprise a great variety of technology, production and work methods. In addition to this, Norway furnishes us with a wide variety of weather conditions and natural environments.

All of this has provided us with the best possible conditions for the testing and optimizing of our liquid proof gloves.

One of the main challenges you face when working in wet conditions is finding a glove with a sufficiently good grip to make sure you can keep on working without dropping objects or battling slippage.

The perception of the gloves is different for every user. Make sure you try them out in order to get the best possible grip for whatever assignment you have.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Chemical resistant	Food approved	Grip type			Length (cm)	Glove material			Other
			Dry	Wet	Oily		PVC/Vinyl	Nitrile	Latex	
109.8100			•	•		45	•			Extra long
109.8400			•	•	•	42-43	•			Extra long
109.8900			•	•	•	40	•			Free from phthalates
111.0300	•		•	•		30	•			Free from phthalates
112.0122	•	•	•	•	•	30			•	
112.0400	•	•	•	•	•	30			•	
112.0940		•	•	•	•	33			•	
114.955	•	•	•	•	•	29-30	•			Single use

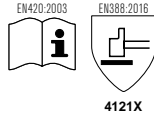


FISHERMEN'S GLOVES

PVC/vinyl dipped on seamless nylon liner with PU cuff.

- Comfortable.
- Soft with outstanding grip in dry and wet conditions.
- Flexible, and less tiring to the hand.
- Easy to get on and off.
- Long lasting and heavily resistant to wear and tear.
- Special double-dipped vinyl/PVC coating.
- REACH-compliant.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Handling slippery objects and for general work in wet environments.

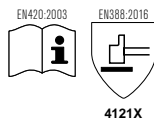


FISHERMEN'S GLOVES

Vinyl/PVC with granulation, interlock liner.

- Highly durable.
- For handling slippery objects.
- Heavy granulation provides good grip.
- Interlock liner.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Handling slippery objects and for general work in wet environments.



NEW!

**PHTHALATE
FREE**

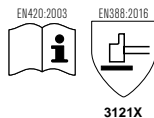


FISHERMEN'S GLOVES

Vinyl/PVC with granulation, interlock liner.

- Phthalates and silicone free.
- Heavy granulation on the palm for secure grip when handling slippery objects.
- Soft and flexible.
- Highly durable.

Suitable for: Fishing | Fish farming | Deck work | Handling slippery objects | General work in wet environments.



**PHTHALATE
FREE**

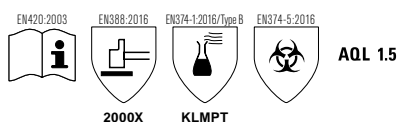


VINYL/PVC CHEMICAL RESISTANT GLOVES CHEMSTAR®

Anti-allergic, cotton flock lined.

- Comfortable and soft.
- Resistant to many chemicals including bleach.
- Anti-allergy tested.
- Contains no known allergens.
- Does not contain Phthalates.

Suitable for: Professional cleaning | Catering etc.



Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	PVC/PU
Liner:	Nylon
Colour:	Blue, Black
Thickness:	N/A
Length:	45 cm
Weight:	N/A
Packaging:	Pair (6/60)
Art:	109.8100

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	9 10 11 12
Material:	Vinyl/PVC
Liner:	Interlock
Colour:	Blue, Black
Thickness:	N/A
Length:	42-43 cm
Weight:	N/A
Packaging:	Pair (12/72)
Art:	109.8400

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	Vinyl/PVC
Liner:	Interlock
Colour:	Blue
Thickness:	1,1 mm
Length:	33 cm
Weight:	N/A
Packaging:	Pair (12/72)
Art:	109.8900

CHEMSTAR®
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016
Category:	CE Cat. III
Sizes:	7 8 9 10
Material:	Vinyl/PVC
Liner:	Flocklined
Colour:	Blue
Thickness:	0,4 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/120)
Art:	111.0300

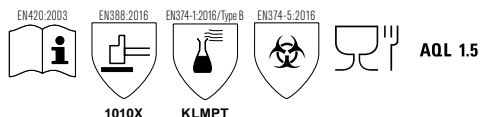


LATEX CHEMICAL RESISTANT GLOVES CHEMSTAR®

Cotton flock lined.

- Tear-resistant beaded cuff for easy donning.
- Anti-slip pattern for good grip in wet and dry conditions.
- Pure cotton flock liner to absorb perspiration.

Suitable for: Handling meat and fatty foodstuffs | Pharmaceutical industry | Cleaning | Light assembly | Laboratories.

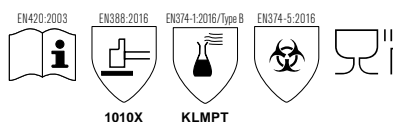


LATEX GLOVES

Rolled cuff, cotton flock lined.

- Comfortable.
- Soft gloves with grip pattern.

Suitable for: All types of washing and cleaning | Food production and packing.

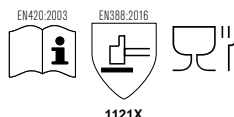


WATERPROOF GLOVES MADE OF NATURAL RUBBER WITH NITRILE

Unlined.

- Soft and flexible gloves with great dexterity causing minimal hand fatigue.
- Excellent grip recommended for handling fish and other slippery items and materials.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).

Suitable for: Handling meat, fish, poultry and other fatty foods | Fishing/fish farming | Cleaning.

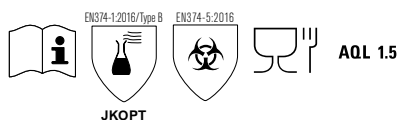


SINGLE-USE GLOVES

Nitrile, powder free. Blue colour. 30 cm length.

- Ambidextrous.
- Patented fish scale print on both sides of gloves for optimal grip.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).
- Chemical and oil resistant.
- Tear-resistant beaded cuff for easy donning.
- Extra comfortable if used with inner glove.
- Silicone free.

Suitable for: Handling meat, fish, poultry and other fatty foods | Cleaning | Light assembly.



CHEMSTAR
BY GRANBERG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Latex
Liner:	Flocklined
Colour:	Blue
Thickness:	0,38 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/144)
Art:	112.0122

GranberG

Standards:	EN 420, 388:2016, 374:2016, 1186
Category:	CE Cat. III
Sizes:	XS S M L XL
Material:	Latex
Liner:	Flocklined
Colour:	Yellow
Thickness:	0,38 mm
Length:	30 cm
Weight:	N/A
Packaging:	Pair (12/144)
Art:	112.0400

GranberG

Standards:	EN 420, 388:2016, 1186
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Nitrile/Natural rubber
Liner:	Unlined
Colour:	Blue
Thickness:	N/A
Length:	33 cm
Weight:	N/A
Packaging:	Pair (12/144)
Art:	112.0940

GranberG

Standards:	EN 420, 374:2016, 1186
Category:	CE Cat. III
Sizes:	S M L XL XXL XXXL
Material:	Nitrile
Liner:	
Colour:	Blue
Thickness:	0.20 ± 0.01 mm (palm)
Length:	29-30 cm
Weight:	11.4 ± 0.3 g
Packaging:	Inner Pack (10/48)
Art:	114.955





TACTICAL GLOVES



DEVELOPED IN PARTNERSHIP WITH THE LITHUANIAN SPECIAL FORCES.

Our tactical gloves are developed in partnership with LK-SOP, the Lithuanian special forces. Like special forces units, our gloves are meant to be inconspicuous.

You won't even know they're there. These gloves take care of you so you can take care of your job.

FOR SOME PEOPLE, STAYING SAFE DOES NOT MEAN STAYING OUT OF HARM'S WAY

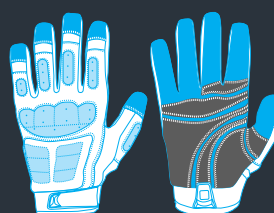
Some people step right into harm's way, braving hardships and defying the odds too.

Get the job done.



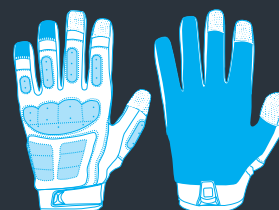
SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.



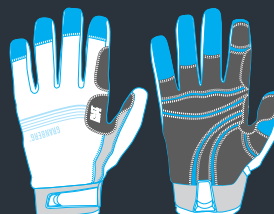
119.2202

- SOFT IMPACT PROTECTION
- EXTRA WEAR RESISTANCE
- HEAT AND CUT PROTECTION



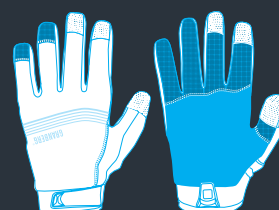
119.2203

- SOFT IMPACT PROTECTION
- TOUCH SCREEN COMPATIBLE
- HEAT AND CUT PROTECTION



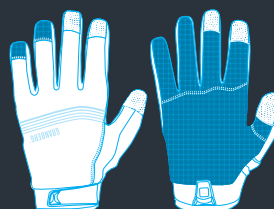
119.2209

- HIGH VISIBILITY
- EXTRA WEAR RESISTANCE
- HEAT AND CUT PROTECTION



119.2211

- NEEDLE STICK RESISTANT
- TOUCH SCREEN COMPATIBLE
- HEAT AND CUT PROTECTION



119.2212

- TOUCH SCREEN COMPATIBLE
- NEEDLE STICK AND CUT RESISTANT

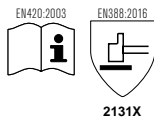


ASSEMBLY GLOVES/SHOOTING GLOVES EX®

MicroSkin Shield® material with neoprene back and Velcro closure, unlined.

- Flexible.
- Good grip and high touch sensitivity.
- Reinforced fingertips and reinforced palm for added durability.
- Water-repellent and elastic neoprene on the back of hand.
- Machine washable. Drip dry.

Suitable for: Law enforcement | Military | Special forces | Police | Security | Assembly work and other similar tasks



2131X

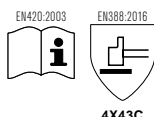


CUT RESISTANT GLOVES

Typhoon® fibre with polyurethane coating.

- Preferred choice for police and security personnel.
- Black colour and no external markings.
- Extended cuff protects forearm from cuts.
- Soft and flexible gloves with long life.
- Typhoon® is one of the strongest fibres in the world.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Police | Security Personnel | Assembly work with high risk of injury from cuts.



4X43C

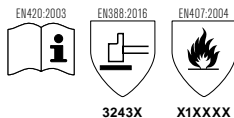


TACTICAL FAST ROPE GLOVES

Goatskin, full Kevlar® lining.

- Full Kevlar® lining in palm and fingers protects from heat and cuts.
- Seamless finger tips for optimal comfort and safety.
- Goatskin leather provides excellent touch sensitivity.
- Leather reinforcements in palm are following palmar flexion creases and provide rappelling control.
- Very comfortable and fitted.
- Breathable nylon mesh on back of hand keep hands cool and dry.
- Soft impact protection secures knuckles and fingers.
- A rubber pull tab make gloves easy to pull on and remove.
- Velcro closure on wrist.

Suitable for: Fast ropers and rappelling.



3243X

X1XXXX

Design protected by patents.

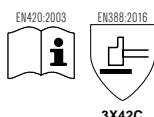


GOATSKIN, FULL KEVLAR® LINING

Goatskin, full Kevlar® lining.

- Full Kevlar® lining in palm and fingers protects from cut and heat injuries.
- Seamless finger tips for optimal comfort and safety.
- Goatskin leather provides excellent touch sensitivity.
- Very comfortable and fitted.
- Breathable nylon mesh on back keeps hands cool and dry.
- Soft impact protection secures knuckles and fingers.
- Rubber puller for easy donning.
- A rubber pull tab make gloves easy to pull on and remove.
- Sewn with Kevlar® threads.

Suitable for: Police and military operatives for general protection including knife attacks.



3X42C

Design protected by patents.



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	MicroSkin Shield® (Palm) Neoprene (Back)
Liner:	Unlined
Colour:	Black
Thickness:	0,5-0,6 mm
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	107.8888



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	PU
Liner:	Typhoon®
Colour:	Black
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/72)
Art:	116.561



Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Goatskin (Palm) Polyester (Back)
Liner:	Kevlar® (Palm lined)
Colour:	Black
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/72)
Art:	119.2202



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Goatskin (Palm) Nylon, Synthetic leather (Back)
Liner:	Kevlar® (Palm lined)
Colour:	Black
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/72)
Art:	119.2203



TACTICAL RESCUE GLOVES

Goatskin, full Kevlar® lining.

- Intended for the rigorous abuse that a hoist operator's glove endures while controlling a hoist cable during rescue operations from military or civil helicopters.
- Also intended for fire rescue operations done by fire brigade personnel.
- Premium grade black goatskin palm and fingers.
- Kevlar® lining in palm and fingers as well as additional layers in the critical areas provide protection against extreme abrasion, extreme heat and potential sharp objects.
- High visibility yellow, elastic neoprene back (black neoprene back is optional).
- Very comfortable and fitted.

Suitable for: The rigorous abuse that a hoist operator's glove endures while controlling a hoist cable during rescue operations from military or civil helicopters. Also intended for fire rescue operations done by fire brigade personnel.



Design protection is ongoing.

3243X

X2XXXX

NEW!



TACTICAL NEEDLE RESISTANT GLOVES

Goatskin, Kevlar® lining, touchscreen compatible.

- Palm and fingers made of premium grade black goatskin.
- Kevlar® lining in palm, fingers and fingertips protects from heat and cuts.
- Needle stick resistant material in fingers and fingertips provides protection from needle hazards and increases cut resistance as well as abrasion and puncture resistance.
- Touch screen material in the fingertips for operating with Touch Screen Devices.
- Elastic neoprene on back of hand keeps the hands warm and dry.
- A rubber pull tab makes gloves easy to pull on and remove.
- Adjustable Velcro closure on wrist.
- Very comfortable and fitted.
- Sewn with Kevlar® threads.

Suitable for: Law enforcement | Military | Special forces | Police | Security.



3X42C

NEW!



TACTICAL NEEDLE RESISTANT GLOVES

Goatskin, touchscreen compatible.

- Palm and fingers made of premium grade black goatskin.
- Needle stick resistant material in the palm provides protection from needle hazards and increases cut resistance as well as abrasion and puncture resistance.
- ASTM Hypodermic Needle (25 gauge) Puncture Resistance is level 5.
- Provides extreme blade cut resistance, EN 388:2016, level F (highest level).
- Touch screen material in the fingertips for operating with Touch Screen Devices.
- Elastic neoprene on back of hand keeps the hands warm and dry.
- A rubber pull tab makes gloves easy to pull on and remove.
- Adjustable Velcro closure on wrist.
- Very comfortable and fitted.
- Sewn with Kevlar® threads.

Suitable for: Law enforcement | Military | Special forces | Police | Security.



ASTM F2878-2010

Level 5

2X21F

Granberg®

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Goatskin (Palm) Neoprene (Back)
Liner:	Kevlar® (Fully lined)
Colour:	Black, Green
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/36)
Art:	119.2209

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Goatskin (Palm) Neoprene (Back)
Liner:	Kevlar® (palm lined)
Colour:	Black
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/36)
Art:	119.2211

Granberg®

Standards:	EN 420, 388:2016, ASTM F2878-2010
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11 12
Material:	Goatskin (Palm) Neoprene (Back)
Liner:	Needle stick resistant material
Colour:	Black
Thickness:	N/A
Length:	21-26 cm
Packaging:	Pair (6/36)
Art:	119.2212

FEARLESS PERFORMANCE®

To be the first choice for hand protection

NO SINGLE MATERIAL MET OUR REQUIREMENTS

SO WE INVENTED IT

KOZANE® is an innovative high-tech material with greater cut, abrasion and slash resistance than any other textile or fabric in its class.

Yet it is soft and flexible enough to make into protective clothing that won't make you feel like you're wearing a suit of armour.





KNITTED GLOVES

ARE YOU SUFFERING FROM ECZEMA OR SENSITIVE SKIN?

Sweat and moisture can be a challenge for people who suffer from eczema and sensitive skin. They may benefit from using specially designed gloves, to be used on their own or as inner gloves.

We particularly recommend our Bamboo gloves, which feel like silk on a dry and cracked hand.

Bamboo viscose has allergy friendly features. These gloves will also absorb 2-3 times more moisture than a glove made from cotton.

Our Bamboo® gloves are available in both adult and kids' sizes.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Glove material				Dots	Seamless	Suitable as inner glove	Washable	Other
	Cotton	Synthetic	Bamboo	Lycra					
110.0155			•	•				•	Eczema gloves, children's size
110.0160			•	•				•	Eczema gloves
110.0240		•				•	•		
110.0340						•	•	•	Winter gloves, Thermolite®
110.0364	•				•	•			
110.0381						•	•		Heat insulating, acrylic, food approved
110.0450	•						•		Light and thin
110.0460	•						•		Extra thin, knitted cuff
110.0461		•				•	•	•	Food approved
110.0470	•				•				Phalata free vinyl dots
110.0475	•				•				Phalata free vinyl dots
110.0483	•			•	•	•			Vinyl dots
110.0484	•			•	•	•			Vinyl dots

TIP! Get soft hands over night with Bamboo® fra Granberg®.



Treat your hands with a moisturizer (as fat as possible) before going to bed at night. Put our Bamboo gloves on and leave them on all night – you'll wake up with softer skin. Your hands will love you for this. Repeat the process 1-2 times a week, especially during the cold winter.

CHILD
SIZES

RECOMMENDED BY

THE NORWEGIAN
ASTHMA AND ALLERGY
ASSOCIATION

CHILDREN'S ECZEMA GLOVES BAMBOO®

Skin-friendly, made of bamboo viscose fiber.

Many children suffer from eczema, and suffering itching and discomfort at their hands. These soft children's gloves, which are made from skin-friendly and bamboo, will prevent the child from scratching directly on eczema/wounds, keeping the cream that is used in the treated area to last longer.

We have been working especially to develop gloves with a tailored fit for children, and therefore offer the gloves in five child sizes. This is so that children should experience as few inconveniences as possible while using the gloves at play and other activities, or during the night.

The gloves can be washed at 60 °C and will keep their good qualities wash after wash.



Standards:	N/A
Category:	N/A
Sizes:	1-2 3-4 5-6 7-8 9-10
Material:	Bamboo viscose/Lycra®
Colour:	White
Length:	17-19 cm
Packaging:	Pair (12/240)
Art:	110.0155



ECZEMA GLOVES BAMBOO®

Skin-friendly, made of bamboo viscose fiber.

Many adults suffer from eczema, and suffering itching and discomfort at their hands. These super soft gloves, which are made from health-friendly and biodegradable bamboo, will prevent the user from scratching directly on eczema / wounds, keeping the cream that is used in the treated area to last longer.

The gloves have a perfect stretch fit, and they are very comfortable to wear.

The gloves can be washed at 60 °C and will keep their good qualities wash after wash.

EN420:2003



Standards:	EN 420
Category:	CE Cat. I
Sizes:	XS S M L XL
Material:	Bamboo viscose/Lycra®
Colour:	Natural
Length:	20-23 cm
Packaging:	Pair (12/240)
Art:	110.0160

NEW!



KNITTED GLOVES

Nylon, machine-knitted.

- Comfortable.
- Seamless.
- Ambidextrous.
- Great as a liner.

EN420:2003



Standards:	EN 420
Category:	CE Cat. I
Sizes:	8 10 11
Material:	Nylon
Colour:	White
Length:	23 cm
Packaging:	Pair (12/240)
Art:	110.0240



KNITTED WINTER GLOVES

Thermolite® hollow-core fibre.

- Wicks perspiration away from your skin, while the inner layer remains warm and dry.
- Shrink-resistant, machine washable.
- High thermal insulation.

Suitable for: Commercial fishing | Refrigerated warehousing | Construction and regular outdoor utility work.

Thermolite® is a registered trademark of DuPont.

EN420:2003



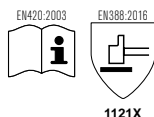
Standards:	EN 420
Category:	CE Cat. I
Sizes:	8.5 11
Material:	Thermolite®
Colour:	Blue
Length:	23 cm
Packaging:	Pair (12/144)
Art:	110.0340



KNITTED GLOVES

Cotton with vinyl/PVC dots on both sides.

- High tensile strength.
- Very good grip.
- Machine knitted (seamless). Ambidextrous.



1121X

NEW!

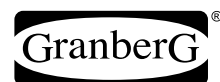


KNITTED WINTER GLOVES

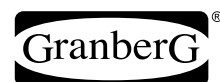
Acrylic.

- Provides good thermal insulation.
- Well fitted and soft.
- Great as a liner.
- Ambidextrous.
- Machine washable at 30° C.
- Approved to be used in direct contact with all types of food, including fatty foods (EN 1186).

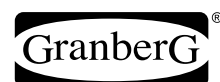
Suitable for: Cold storage| Refrigerated warehousing| Regular outdoor utility work.



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10
Material:	Cotton with vinyl/PVC dots
Colour:	Blue, Red
Length:	25-27 cm
Packaging:	Pair (12/288)
Art:	110.0364



Standards:	EN 420, 1186
Category:	CE Cat. I
Sizes:	8 10
Material:	Acrylic
Colour:	Grey
Length:	23-25 cm
Packaging:	Pair (12/240)
Art:	110.0381



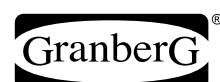
Standards:	EN 420
Category:	CE Cat. I
Sizes:	S M L XL
Material:	Cotton
Colour:	White
Length:	23-26 cm
Packaging:	Pair (12/600)
Art:	110.0450



COTTON GLOVES

Bleached.

- Light. Very thin and comfortable.
- Used inside single-use gloves or other thin gloves for those who have sensitive skin or are plagued with hand eczema.
- Provides good insulation.



Standards:	EN 420
Category:	CE Cat. I
Sizes:	8 10
Material:	Polyester/Cotton
Colour:	White
Length:	25-27 cm
Packaging:	Pair (12/960)
Art:	110.0460



INTERLOCK GLOVES

Polyester/cotton, knitted wrist.

- Light. Very thin and comfortable.
- Used inside single-use gloves or other thin gloves.
- Provides good insulation.
- Absorbs moisture.

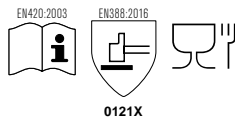




INNER GLOVES

Polyester, machine-knitted.

- Light. Very thin and comfortable.
- Used inside single-use gloves or other thin gloves for those who have sensitive skin or are plagued with hand eczema.
- Provides good insulation.
- Machine washable at 70° C.



Standards:	EN 420, 388:2016, 1186
Category:	CE Cat. II
Sizes:	10
Material:	Polyester
Colour:	White
Length:	23 cm
Packaging:	Pair (12/960)
Art:	110.0461



COTTON GLOVES

Vinyl/PVC microdots.

- Small phthalates-free vinyl/PVC dots provide good grip.
- Comfortable to wear.



Standards:	EN 420
Category:	CE Cat. I
Sizes:	6 7 8 9 10 11
Material:	Cotton with vinyl/PVC dots
Colour:	White
Length:	22-28 cm
Packaging:	Pair (12/600)
Art:	110.0470



COTTON GLOVES

Vinyl/PVC microdots.

- Small phthalates-free vinyl/PVC dots provide good grip.
- Comfortable to wear.



Standards:	EN 420
Category:	CE Cat. I
Sizes:	7 8 9 10
Material:	Cotton with vinyl/PVC dots
Colour:	Black
Length:	22-27 cm
Packaging:	Pair (12/600)
Art:	110.0475



COTTON GLOVES WITH LYCRA®

Vinyl/PVC microdots.

- Small phthalates-free vinyl/PVC dots provide good grip.
- Comfortable to wear.
- Machine knitted, seamless.



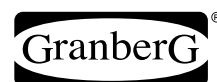
Standards:	EN 420
Category:	CE Cat. I
Sizes:	7 8 9 10
Material:	Cotton/Lycra® with vinyl/PVC dots
Colour:	White
Length:	19-24 cm
Packaging:	Pair (12/600)
Art:	110.0483



COTTON GLOVES WITH LYCRA®

Vinyl/PVC microdots.

- Small vinyl/PVC dots provide good grip.
- Comfortable to wear.
- Machine knitted, seamless.



Standards:	EN 420
Category:	CE Cat. I
Sizes:	7 8 9 10
Material:	Cotton/Lycra® with vinyl/PVC dots
Colour:	Black
Length:	19-24 cm
Packaging:	Pair (12/600)
Art:	110.0484

A 60-YEAR-OLD THOUGHT

To make and deliver perfect protection

Our Norwegian heritage means that we are not unfamiliar with tough work in harsh conditions. Honest work and the will to survive has always been strong here. The first product, a pair of leather gloves, was hand-sewn by a man who's dream was to make hard work safer.







: ALL- : ROUND- : GLOVES



THE HAND your most important tool

Your hand is the main tool of the human body. It represents one of the body's most complex and useful mechanisms.

The human hand has 27 different bones, 30 joints, 55 muscles and an average grip strength of 50kg!

Because the hand is our primary tool, it is also exposed to many risks. It is therefore very important to protect it. But be sure to use the right protection for the application – the wrong glove choice can add to the danger instead of protecting you from it.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Winter lined	Velcro closure	Leather	Coated	Fit			Other
					Tight	Normal	Loose	
101.9510			•				•	
101.9540	•		•				•	Puncture resistant
101.9740	•		•				•	
102.9500			•				•	Abrasion resistant
102.9610			•				•	
102.9613			•				•	
103.4140	•		•				•	
103.4190			•				•	Abrasion resistant
103.4270			•			•		
103.4275		•	•			•		
107.8112	•						•	Waterproof
107.9550							•	Water repellent, phalatri
108.3110				•		•		
108.8095	•			•	•			
113.1020			•			•		
113.1051	•		•			•		Wind and waterproof
113.4190			•				•	
114.0070				•			•	
114.0156				•		•		Water repellent
114.0166				•		•		
120.1118		•			•			

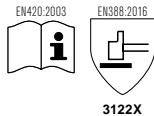


WORK GLOVES

Pig grain leather with rubberized cuff, palm lined.

- Durable. For tasks with a high priority on wear resistance.

Suitable for: Versatile use in engineering industry.



3122X

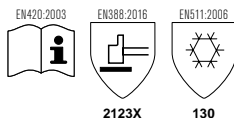


WORK WINTER GLOVES

Pig grain leather with rubberized cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.

Suitable for: Outdoor work in building and construction, etc.



2123X

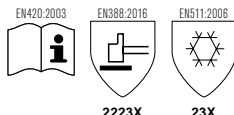
130



WORK GLOVES

Pig grain leather with pasted cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.



2223X

23X

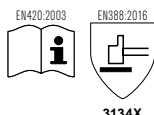


WORK GLOVES

Cow split leather with rubberized cuff, palm lined.

- Durable. For tasks with a high priority on wear resistance.

Suitable for: Work with lumber and other heavy-duty work | Dry work environments.



3134X

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Cotton fleece (Palm lined)
Colour:	Red, Beige
Thickness:	1,0-1,2 mm
Length:	24-27 cm
Packaging:	Pair (12/120)
Art:	101.9510

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	10 11 12
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Red, Beige
Thickness:	1,0-1,2 mm
Length:	27-29 cm
Packaging:	Pair (6/60)
Art:	101.9540

Granberg®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 11
Material:	Pig grain (Palm) Cotton (Back)
Liner:	Acrylic fur (Fully lined)
Colour:	Black, Beige
Thickness:	1,0-1,2 mm
Length:	27-30 cm
Packaging:	Pair (6/60)
Art:	101.9740

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	10 11
Material:	Cow split (Palm) Cotton (Back)
Liner:	Cotton fleece (Palm lined)
Colour:	White, Yellow
Thickness:	1,2-1,4 mm
Length:	27-28 cm
Packaging:	Pair (12/60)
Art:	102.9500

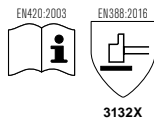


WORK GLOVES

Pig split leather with rubberized cuff, palm lined.

- Universal. All-round gloves for tasks with a moderate priority on wear resistance.

Suitable for: Work with lumber and other heavy-duty work | Dry work environments.



3132X



WORK GLOVES

Pig split leather with pasted cuff, palm lined.

- Universal. All-round gloves for tasks with a moderate priority on wear resistance.
- Best suited for dry work conditions.

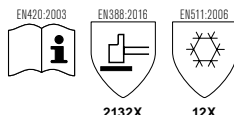


WORK WINTER GLOVES

A-grade cow grain leather with rubberized cuff, winter lined.

- Durable. For tasks with a high priority on wear resistance.
- Provides good thermal insulation.

Suitable for: Outdoor work in cold environments within building and construction industry.



2132X

12X

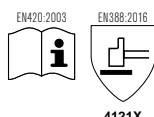


WORK GLOVES

A-grade cow grain leather with rubberized cuff, palm lined.

- Durable. For tasks with a high priority on wear resistance.

Suitable for: Stone | Wire | Concrete products | Heavy duty work, etc.



4121X

GranberG®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Pig split (Palm) Cotton (Back)
Liner:	Cotton fleece (Palm lined)
Colour:	Yellow
Thickness:	0,9-1,0 mm
Length:	24-27 cm
Packaging:	Pair (12/120)
Art:	102.9610

GranberG®

Standards:	EN 420
Category:	CE Cat. I
Sizes:	8 10
Material:	Pig split (Palm) Cotton (Back)
Liner:	Cotton (Palm lined)
Colour:	Black, Beige
Thickness:	0,7-0,9 mm
Length:	25-27 cm
Packaging:	Pair (12/120)
Art:	102.9613

GranberG®

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 11 12
Material:	Cow grain (Palm) Cotton (Back)
Liner:	Synthetic liner (Fully lined)
Colour:	Blue, Beige
Thickness:	1,0-1,2 mm
Length:	26-29 cm
Packaging:	Pair (6/60)
Art:	103.4140

GranberG®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	Cow grain (Palm) Cotton (Back)
Liner:	Cotton fleece (Palm lined)
Colour:	Blue, Beige
Thickness:	1,1-1,3 mm
Length:	24-28 cm
Packaging:	Pair (6/60)
Art:	103.4190

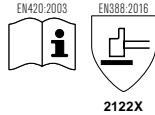


ASSEMBLY GLOVES

A-grade cow grain leather, unlined.

- Comfortable and flexible.
- Soft and strong leather ensures a long life-span.

Suitable for: Varied engineering work with high wear and tear requirements.



2122X

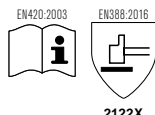


ASSEMBLY GLOVES

A-grade cow grain leather with Velcro closure, unlined.

- Comfortable.
- Soft and strong leather ensures a long life-span.

Suitable for: Varied engineering work with high wear and tear requirements.



2122X

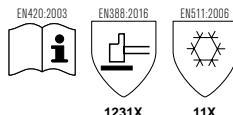


ALL-ROUND WINTER GLOVES EX®

MicroSkin Shield® material with ProTex® membrane, Spandex® back.

- Flexibility and good grip.
- Provides protection against cold and moisture.
- Sewn-in thermal, waterproof and breathable ProTex® membrane.
- Warm and soft liner inside the gloves.
- Palm and thumb-base reinforcement.
- Reflectives around the cuff.
- Machine washable. Drip dry.

Suitable for: Assembly work and other tasks in cold environments with high requirements to mobility, flexibility and grip.



1231X

11X



WORK GLOVES

Vinyl/PVC with pasted cuff.

- For general protection against dirt and grime.
- Water repellent material in the palm.



Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	Cow grain
Liner:	Unlined
Colour:	Beige
Thickness:	0,8-1,0 mm
Length:	23-26 cm
Packaging:	Pair (12/120)
Art:	103.4270

Granberg®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	9 10 11
Material:	Cow grain
Liner:	Unlined
Colour:	Beige
Thickness:	0,8-1,0 mm
Length:	24-26 cm
Packaging:	Pair (12/120)
Art:	103.4275

EX®
BY GRANBERG

Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	8 9 10 11 12
Material:	MicroSkin Shield® (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	Black
Thickness:	N/A
Length:	26-29 cm
Packaging:	Pair (6/60)
Art:	107.8112

Granberg®

Standards:	EN 420
Category:	CE Cat. I
Sizes:	10
Material:	Vinyl/PVC (Palm) Cotton (Back)
Liner:	Cotton (Palm lined)
Colour:	Multicolor
Thickness:	N/A
Length:	26 cm
Packaging:	Pair (12/120)
Art:	107.9550

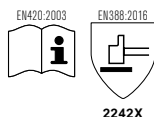


WORK GLOVES

Latex coating.

- Universal. All-round handling gloves for work and hobby.
- Flexible.
- Good grip and durability.

Suitable for: All tasks in dry conditions, where it is most important with a sure grip.



2242X

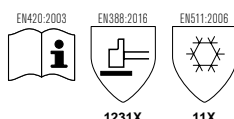


KNITTED WINTER GLOVES

Latex foam coating.

- Flexible and comfortable.
- Good grip and long life-span.
- Provides good thermal insulation.

Suitable for: Building, handicraft and handling of goods in cold environments.



1231X

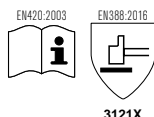
11X



ASSEMBLY GLOVES

Goatskin, unlined.

- Goatskin leather is soft, flexible and touch sensitive.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Strong leather makes the gloves very durable.
- Fits hand well.



3121X

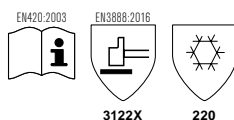


WORK WINTER GLOVES

Goatskin, wind- and waterproof.

- Leather glove features combined with advantages ProTex® wind- and waterproof, breathable membrane.
- The sewn-in ProTex® membrane keeps hands warm and dry when working.
- Soft and durable goatskin in the palm and Spandex® on back of hand.
- Provides very good thermal insulation.

Suitable for: Construction | Heavy duty work | Shipping | Cold Storage | Outdoor winter use | Damp, windy, cold environments.

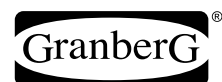


3122X

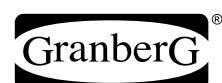
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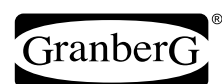
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Category:	CE Cat. II
Sizes:	9 10
Material:	Latex
Liner:	Cotton/Polyester
Colour:	Green
Thickness:	N/A
Length:	23-24 cm
Packaging:	Pair (12/144)
Art:	108.3110



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	9 10 11 12
Material:	Latex
Liner:	Acrylic flannel
Colour:	Blue, Grey
Thickness:	N/A
Length:	25-29 cm
Packaging:	Pair (12/120)
Art:	108.8095



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	7 8 9 10 11
Material:	Goatskin
Liner:	Unlined
Colour:	White
Thickness:	0,7-0,9 mm
Length:	22-26 cm
Packaging:	Pair (12/120)
Art:	113.1020



Standards:	EN 420, 388:2016, 511
Category:	CE Cat. II
Sizes:	7 8 9 10 11 12
Material:	Goatskin (Palm) Spandex® (Back)
Liner:	Synthetic liner/ProTex® membrane (Fully lined)
Colour:	White, Grey
Thickness:	0.85-0.95 mm
Length:	24-29 cm
Packaging:	Pair (6/72)
Art:	113.1051

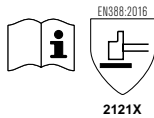


WORK GLOVES

Goatskin with rubberized cuff, palm lined.

- Comfortable and fitted.
- Soft and strong goatskin leather provides the gloves excellent dexterity and touch sensitivity.
- Goatskin has higher strength-to-weight ratio than cow grain leather.
- Good ventilation on back of hand that is made of 100% cotton.

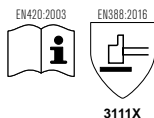
Suitable for: Assembly work, versatile use in varied engineering and construction industries with high wear and tear requirements.



WORK GLOVES

Full nitrile coating with rubberized cuff.

- For rough work: best in dry and strongly abrasive conditions.

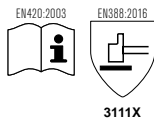


WORK GLOVES

Full nitrile coating with knitted wrist.

- Durable.
- Special nitrile formulation provides an excellent combination of flexibility, mechanical resistance and oil repellence.
- Silicone-free. Ensure cleanliness of metal sheets.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Refuse collection | Sheet and light metals handling | Stamping operations | Gas and electricity supply | Assembling and inspecting engine parts | General handling.

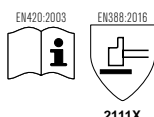


WORK GLOVES

Nitrile coating, open back with knitted wrist.

- Light.
- Good grip.
- Provides high touch sensitivity.
- Comfortable to use.
- Good breathability.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Refuse collection | Sheet and light metals handling | Stamping operations | Gas and electricity supply | Assembling and inspecting engine parts | General handling.



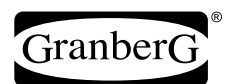
Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	9 10 11
Material:	Goatskin (Palm) Cotton (Back)
Liner:	Cotton fleece (Palm lined)
Colour:	Blue, White
Thickness:	1,0-1,2 mm
Length:	26-30 cm
Packaging:	Pair (12/120)
Art:	113.4190



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	10
Material:	Nitrile
Liner:	Cotton
Colour:	Blue
Thickness:	N/A
Length:	26 cm
Packaging:	Pair (12/144)
Art:	114.0070



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10
Material:	Nitrile
Liner:	Cotton
Colour:	Blue
Thickness:	N/A
Length:	25-26 cm
Packaging:	Pair (12/144)
Art:	114.0156



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	10
Material:	Nitrile
Liner:	Cotton
Colour:	Blue
Thickness:	N/A
Length:	27-29 cm
Packaging:	Pair (12/144)
Art:	114.0166



ASSEMBLY GLOVES EX®

MacroSkin Pro® with Spandex® back and Velcro closure, unlined.

- A rugged work glove that can hardly wear out.
- Reinforced palm and fingertips.
- Soft and supple wrist end made of the elastic neoprene.
- Good breathability.
- Adjustable Velcro closure at the wrist.
- Machine washable. Drip dry.

Suitable for: Rough work, e.g. for offshore usage | Iron fixing | Sawmill work.

Design protected by patents.



3142X



Standards:	EN 420, 388:0216
Category:	CE Cat. II
Sizes:	8 9 10 11
Material:	MacroSkin Pro® (Palm) Spandex® (Back)
Liner:	Unlined
Colour:	Black, Grey, Green
Thickness:	N/A
Length:	23-26 cm
Packaging:	Pair (12/120)
Art:	120.1118

FEARLESS PERFORMANCE®





WELDING GLOVES

PROTECTIVE GLOVES FOR WELDERS

The EN 12477:2001 standard

This standard applies to protective gloves for use in manual metal welding, cutting and allied processes.

Gloves approved in accordance with EN 12477:2001, are classified as one of two types: type A or type B.

For each of the types, the standard defines a set of minimum requirements to performance with a series of test carried out in accordance to the standards EN 388, EN 407 and EN 420.

The table at the right shows an overview of these tests and the minimum requirements. Which type you should choose depends on the type of work you are going to do.

Type A: Lower dexterity and higher performance for physical characteristics.

This type is recommended for all welding operations where a higher level of protection would be needed. It is not recommended for TIG* welding.

Type B: Higher dexterity and lower physical performance. This type is recommended for TIG* welding.

The standard also includes further tests and requirements.



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Fit			Glove material			Liner material	Other
	Tight	Normal	Loose	Length (cm)	Cow leather	Goatskin	Neoprene	
103.4230K			•	26-29	•		Cotton Fleece	
104.2560			•	33	•		Cotton Fleece	
105.1690K			•	35	•		Cotton Fleece	
105.3810	•			29-32	•		Kozane®	Cut resistant
106.1690K			•	31-35	•		Cotton Fleece	
106.1691K			•	40	•		Cotton Fleece	Extra long
106.3600K	•			33-35	•			TIG gloves
106.3700K	•			29-32	•			TIG gloves

MINIMUM PERFORMANCE REQUIRED FOR APPROVAL ACCORDING TO THE EN 12477:2001 STANDARD:

REQUIREMENTS	STANDARD	TYPE A	TYPE B
Abrasion resistance	EN 388	Level 2	Level 1
Blade cut resistance	EN 388	Level 1	Level 1
Tear resistance	EN 388	Level 2	Level 1
Puncture resistance	EN 388	Level 2	Level 1
Burning behaviour	EN 407	Level 3	Level 2
Contact heat resistance	EN 407	Level 1	Level 1
Convective heat resistance	EN 407	Level 2	-
Resistance to small splashes of molten metal	EN 407	Level 3	Level 2
Dexterity	EN 420	Level 1	Level 4

* TIG welding (tungsten inert gas) is an arc welding process that uses a non-consumable tungsten electrode to produce the weld. This method is now officially named GTAW (Gas Tungsten Arc Welding).

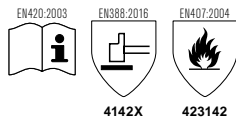


WORK AND HEAT RESISTANT GLOVES

A-grade cow grain leather, fully lined.

- Made for durability and long-lasting comfort.
- Designed with thumb base area reinforcement.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: Heavy-duty engineering work |
Mechining | Grinding, etc.

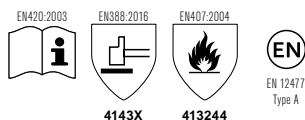


WELDING GLOVES

Cow split leather, fully lined.

- Comfortable.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: Stick welding.

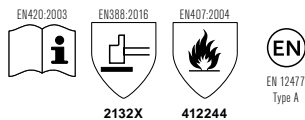


WELDING GLOVES

A-grade cow grain leather, fully lined.

- Comfortable and soft.
- Designed with thumb base area reinforcement.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: Stick and MIG welding.



NEW!

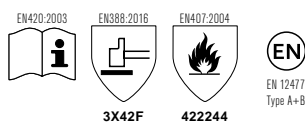


TIG AND MIG WELDING GLOVES

Cut resistant Kozane® FR material and goatskin, unlined.

- Superior gloves for TIG and MIG welding as well as for handling sharp sheet metal etc.
- Provides exceptional comfort and extreme cut and puncture resistance.
- High protection against heat combined with excellent dexterity.
- Lasts 4-5 times longer than regular TIG gloves made from goatskin.
- Increases the efficiency and safety far beyond anything currently seen in the welding business.
- 11 cm split leather cuff.

Suitable for: TIG and MIG welding | Grinding | Cutting



Granberg®

Standards:	EN 420, 388:2016, 407
Category:	CE Cat. II
Sizes:	9 10.5
Material:	Cow grain (Palm) Cow split (Back)
Liner:	Cotton fleece (Fully lined)
Colour:	White, Brown
Thickness:	1.4-1.6 mm
Length:	26-29 cm
Packaging:	Pair (6/60)
Art:	103.4230K

WELD ZONE®
Granberg®

Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	10
Material:	Cow split
Liner:	Cotton fleece (Fully lined)
Colour:	Green
Thickness:	1.0-1.3 mm
Length:	33 cm
Packaging:	Pair (6/60)
Art:	104.2560

WELD ZONE®
Granberg®

Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	10
Material:	Cow grain (Palm) Cow split (Back)
Liner:	Cotton fleece (Fully lined)
Colour:	White, Brown
Thickness:	1.2-1.4 mm
Length:	35 cm
Packaging:	Pair (6/60)
Art:	105.1690K

Granberg®

Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	8 9 10 11 12
Material:	Goatskin
Liner:	Kozane®
Colour:	White, Black
Thickness:	N/A
Length:	29-32 cm
Packaging:	Pair (6/36)
Art:	105.3810

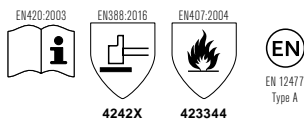


WELDING GLOVES

A-grade cow split leather, fully lined.

- Sturdy, long-life welding gloves.
- Designed with thumb base area reinforcement.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: Stick and MIG/MAG welding.

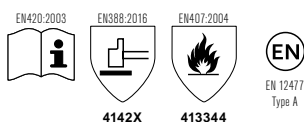


WELDING GLOVES

Cow split leather, fully lined.

- Sturdy, long-life welding gloves.
- Extra long (40 cm).
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: Stick welding.

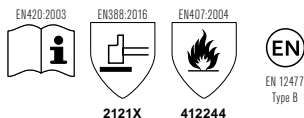


TIG WELDING GLOVES

Goatskin, unlined.

- Durable, Soft, and wear resistant.
- High touch sensitivity.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: TIG welding.

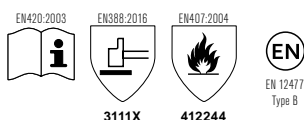


TIG WELDING GLOVES

Goatskin, unlined.

- Durable, Soft, and wear resistant.
- High touch sensitivity.
- Sewn with strong, heat-resistant Kevlar® thread.

Suitable for: TIG welding.



Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	8.5 11 12
Material:	Cow split
Liner:	Cotton fleece (Fully lined)
Colour:	White, Yellow
Thickness:	1,2-1,4 mm
Length:	31-35 cm
Packaging:	Pair (6/60)
Art:	106.1690K



Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	10
Material:	Cow split
Liner:	Cotton fleece (Fully lined)
Colour:	Red
Thickness:	1,2-1,4 mm
Length:	40 cm
Packaging:	Pair (6/60)
Art:	106.1691K



Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	9 10 11
Material:	Goatskin
Liner:	Unlined
Colour:	White, Yellow
Thickness:	0,9-1,0 mm
Length:	33-35 cm
Packaging:	Pair (12/120)
Art:	106.3600K



Standards:	EN 420, 388:2016, 407, 12477
Category:	CE Cat. III
Sizes:	8 9 10 11
Material:	Goatskin
Liner:	Unlined
Colour:	Blue, White
Thickness:	0,9-1,0 mm
Length:	29-32 cm
Packaging:	Pair (12/120)
Art:	106.3700K





: GARDENING : GLOVES



GLOVES FOR GARDENING ALL YEAR ROUND.

Gardening includes such a wide variety of tasks that we actually could recommend any of the gloves presented in this catalogue since all of them will protect your hands when working.

This category presents only a selection of our favourites for the garden.

SPRING

Spring

Springtime in the garden may be the best season of all, when everything starts to bloom after a long winter. Now is the time for tidying up and planting. In some regions it's still quite cold, so a light winter lined glove could be a great alternative.

SUMMER

Summer

Weeding, watering and harvesting form the main part of summer gardening. At this time of year, the soil is most often dried up and you can use almost any protective glove for the job. Why not try one of our tight-fitted coated gardening gloves. If you want to involve the kids, the gloves are also available in kids' sizes. You can find more alternatives on page 90.

AUTUMN

Autumn

Autumn leaves are falling, and the garden needs your attention before winter arrives. Transplanting, pulling out dead plants, trimming, covering trees and plants, cleaning up the green house, planting early-blooming spring bulbs, etc. The to-do list is long this time of year! Why not use a hard-wearing glove like our 120.4283? Check it out on the next page 90.

WINTER

Winter

During the winter season, you need gloves that will keep your hands warm and dry. An example is our 114.4272W, presented on page 90. If you'd like a wider variety to choose from, check our complete winter line on page 44.

CHILD
SIZES



PLAY AND WORK GLOVES FOR CHILDREN

Latex foam coating.

- Colourful header card for retail sales.
- Soft, flexible and comfortable.
- Breathable nylon back for extra comfort.
- Excellent grip without loss of touch sensitivity.

Suitable for: Play in the sandbox, the play set, and when the child is holding different toys or tools.

CHILD
SIZES



PLAY AND WORK GLOVES FOR CHILDREN

Latex foam coating.

- Colourful header card for retail sales.
- Soft, flexible and comfortable.
- Breathable nylon back for extra comfort.
- Excellent grip without loss of touch sensitivity.

Suitable for: Play in the sandbox, the play set, and when the child is holding different toys or tools.

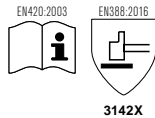
ADULT
SIZES



GARDENING GLOVES

Latex foam coating.

- Soft, flexible and comfortable.
- Good grip and high touch sensitivity.
- Breathable nylon back for extra comfort.
- Colourful header card for retail sales.



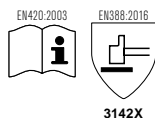
ADULT
SIZES



GARDENING GLOVES

Latex foam coating.

- Soft, flexible and comfortable.
- Good grip and high touch sensitivity.
- Breathable nylon back for extra comfort.
- Colourful header card for retail sales.



Standards:	N/A
Category:	N/A
Sizes:	S M
Material:	Latex
Liner:	Nylon
Colour:	Blue
Length:	18-19 cm
Packaging:	Pair (12/144)
Art:	108.0111



Standards:	N/A
Category:	N/A
Sizes:	S M
Material:	Latex
Liner:	Nylon
Colour:	Pink
Length:	18-19 cm
Packaging:	Pair (12/144)
Art:	108.0112



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	S M L
Material:	Latex
Liner:	Nylon
Colour:	Green
Length:	21-22 cm
Packaging:	Pair (12/144)
Art:	108.0530



Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	S M
Material:	Latex
Liner:	Nylon
Colour:	White, Pink
Length:	21-22 cm
Packaging:	Pair (12/144)
Art:	108.0540

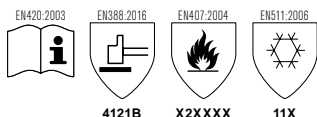


ASSEMBLY WINTER GLOVES

Full nitrile microfoam coating, fleece liner.

- High durability, dexterity and tactile sensitivity.
- Resistant to contact heat up to 250°C for 15 seconds.
- Provides good thermal insulation.
- Water and oil repellent.
- A great alternative to leather driver's gloves.
- Sanitized® treated to prevent bacteria growth and promote freshness.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Motor mechanics when handling hot parts | Cold Storage | Outdoor winter use.



GranberG®

Standards:	EN 420, 388:2016, 407, 511
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	Nitrile
Liner:	Jersey fleece
Colour:	Blue
Length:	23-26 cm
Packaging:	Pair (12/144)
Art:	114.4272W

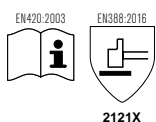


ASSEMBLY GLOVES

MacroSkin Pro® with elastic polyester back, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/Control | Gardening | Retail.



GranberG®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Pink
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4281

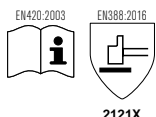


ASSEMBLY GLOVES

MacroSkin Pro® with elastic polyester back with Velcro closure, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control | Gardening | Retail.



GranberG®

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Grey, Pink
Length:	21-23 cm
Packaging:	Pair (12/144)
Art:	120.4283

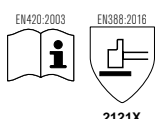


ASSEMBLY GLOVES EX®

MacroSkin Pro® with elastic polyester back with Velcro closure, unlined.

- Comfortable and fitted.
- Ideal for work that requires precision and accuracy.
- Good breathability.

Suitable for: Light and medium fabrication | General assembly | Automotive manufacturing | Inspection/control, etc.



EX®
BY GRANBERG

Standards:	EN 420, 388:2016
Category:	CE Cat. II
Sizes:	6 7 8 9 10 11
Material:	MacroSkin Pro® (Palm) Polyester (Back)
Liner:	Unlined
Colour:	Black, Gray, Green
Length:	21-26 cm
Packaging:	Pair (12/144)
Art:	120.4293





· SINGLE-USE · CLOTHING



SIMILAR, BUT REALLY DIFFERENT

Use the list below to compare the properties of the products.

Art.no	Produkt	Material				Colour	Thickness (my)	Food approved	Other
		PE	CPE	LDPE	NON-WOVEN PP				
210.0020	FACE MASK				•	WHITE		•	
210.0021	BEARD COVER				•	WHITE		•	14 grams
210.0032	DISPOSABLE APRON			•		WHITE	40	•	150 cm
210.0032-1	DISPOSABLE APRON			•		BLUE	40	•	150 cm
210.0033	DISPOSABLE APRON				•	WHITE	40	•	160 cm
210.0033-1	DISPOSABLE APRON			•		BLUE	40	•	160 cm
210.0034	DISPOSABLE APRON			•		WHITE	40	•	130 cm
210.0034-1	DISPOSABLE APRON			•		BLUE	40	•	130 cm
210.0040	SNOOD CAP				•	WHITE		•	10 grams
210.0040B	SNOOD CAP				•	BLUE		•	10 grams
210.0045	MOB CAP				•	WHITE		•	3 grams
210.0045B	MOB CAP				•	BLUE		•	3 grams
210.0049	HOOD				•	WHITE		•	11 grams
210.0060	SHOE COVER, STANDARD		•			BLUE	36	•	16 inches
210.0060S	SHOE COVER, STANDARD		•			BLUE	36	•	16 inches
210.0061	SHOE COVER, STANDARD		•			BLUE	36	•	18 inches
210.0062	SHOE COVER, DOUBLE		•			WHITE	65	•	16 inches
210.0063	STØVELOVERTREKK		•			WHITE	65	•	16 inches
210.0073	SLEEVE COVER			•		WHITE	20	•	43 cm
210.0073B	SLEEVE COVER			•		BLUE	20	•	43 cm
210.0074B	SLEEVE COVER			•		BLUE	25	•	60 cm
210.0085	DISPOSABLE GOWN		•			BLUE	30	•	
210.0090	VISITOR'S COAT				•	WHITE		•	35 grams
210.0095	DISPOSABLE COVERALL				•	WHITE		•	37 grams
210.0095B	DISPOSABLE COVERALL				•	BLUE		•	37 grams
210.1012	DUST RESPIRATOR P2					WHITE			
904.2010	SHOE COVER		•			BLUE	35	•	For dispenser



FACE MASKS

Non-woven polypropylene.

- Layered, 3-layer material with soft, elastic band for ears.
- 100% latex-free.
- 99% particle filtration.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	White
Weight:	4,2 g
Packaging:	Outer Carton 50/1000
Art:	210.0020



BEARD COVER, WHITE

Comfortable elastic band.

- Made of soft non-woven polypropylene material.
- Breathable, lightweight and hygienic.
- Perfect for work areas where hair cover is encouraged or required.
- Suitable for direct contact with all types of foodstuffs.

Suitable for: Catering | Restaurants | Food production | Healthcare.

Sizes:	One size
Material:	Ikke-vevd polypropylen
Colour:	White
Weight:	14 g
Packaging:	Outer Carton (100/1000)
Art:	210.0021



DISPOSABLE APRONS

LDPE, 40 microns, 150 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Also available in 90x160 cm (art. 210.0033).

Sizes:	One size
Material:	LDPE
Colour:	White
Weight:	43 g
Packaging:	Outer Carton (50/250)
Art:	210.0032



DISPOSABLE APRONS

LDPE, 40 microns, 150 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Also available in 90x160 cm (art. 210.0033-1).

Sizes:	One size
Material:	LDPE
Colour:	Blue
Weight:	43 g
Packaging:	Outer Carton (50/250)
Art:	210.0032-1



DISPOSABLE APRONS

LDPE, 40 microns, 160 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Also available in 90 x 150 cm (art. 210.0032).

Sizes:	One size
Material:	LDPE
Colour:	White
Weight:	45 g
Packaging:	Outer Carton (50/250)
Art:	210.0033



DISPOSABLE APRONS

LDPE, 40 microns, 160 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Also available in 90x150 cm (art. 210.0032-1).

Sizes:	One size
Material:	LDPE
Colour:	Blue
Weight:	45 g
Packaging:	Outer Carton (50/250)
Art:	210.0033-1



DISPOSABLE APRONS

LDPE, 40 microns, 130 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	LDPE
Colour:	White
Weight:	38 g
Packaging:	Outer Carton (50/250)
Art:	210.0034



DISPOSABLE APRONS

LDPE, 40 microns, 130 cm.

- Perforated tear line and holes for hanging.
- Thickness: 40 microns.
- 100% virgin PE.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	LDPE
Colour:	Blue
Weight:	38 g
Packaging:	Outer Carton (50/250)
Art:	210.0034-1



SNOOD CAPS

With non-woven polypropylene visor.

- Comfortable.
- Made of soft polypropylene fibre.
- Hygienic.
- Elastic hairnet covers the hair 100%.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	White
Weight:	10 g
Packaging:	Outer Carton (100/1000)
Art:	210.0040



SNOOD CAPS

With non-woven polypropylene visor.

- Comfortable.
- Made of soft polypropylene fibre.
- Hygienic.
- Elastic hairnet covers the hair 100%.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	Blue
Weight:	10 g
Packaging:	Outer Carton (100/1000)
Art:	210.0040B



MOB CAPS

With elastic edge.

- Comfortable.
- Made of soft polypropylene fibre with an encapsulated elastic edge.
- Hygienic.
- Elastic hairnet covers the hair 100%.
- Double elastic for extra comfort (latex-free).
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	White
Weight:	3 g
Packaging:	Outer Carton (100/1000)
Art:	210.0045



MOB CAPS

With elastic edge.

- Comfortable.
- Made of soft polypropylene fibre with an encapsulated elastic edge.
- Hygienic.
- Elastic hairnet covers the hair 100%.
- Double elastic for extra comfort (latex-free).
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	Blue
Weight:	3 g
Packaging:	Outer Carton (100/1000)
Art:	210.0045B



HOOD, WHITE

Comfortable design with elastic face-enclosure.

- Made of soft non-woven polypropylene material.
- Breathable, lightweight and hygienic.
- Covers the hair 100% and prevents food contamination by hair.
- Suitable for direct contact with all types of foodstuffs.

Suitable for: Catering | Restaurants | Food production | Healthcare.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	White
Weight:	11 g
Packaging:	Outer Carton (100/1000)
Art:	210.0049



SHOE COVERS, STANDARD

CPE shoe cover 16".

- Thickness: 36 micron.
- Weight: 4.4 g/pc.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	4.4 g
Packaging:	Outer Carton (100/2000)
Art:	210.0060



SHOE COVERS, STANDARD

CPE shoe cover 16".

- Thickness: 33 micron.
- Weight: 4.2 g/pc.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	4.2 g
Packaging:	Outer Carton (100/2000)
Art:	210.0060S



SHOE COVERS, STANDARD

CPE shoe cover 18".

- Thickness: 36 micron.
- Weight: 4.8 g/pc.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	4.8 g
Packaging:	Outer Carton (100/2000)
Art:	210.0061



SHOE COVERS, DOUBLE THICKNESS

CPE plastic, 16".

- Thickness: 65 microns.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	White
Weight:	8,9 g
Packaging:	Outer Carton (50/1000)
Art:	210.0062



BOOT COVERS

CPE plastic, 16".

- Thickness: 65 microns.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	White
Weight:	31 g
Packaging:	Outer Carton (20/500)
Art:	210.0063



SLEEVE COVERS

Polyethylene, 43 cm, 20 microns.

- Flexible.
- Elastic opening and wristband.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	LDPE
Colour:	White
Weight:	4 g
Packaging:	Outer Carton 100/1000
Art:	210.0073



SLEEVE COVERS

Polyethylene, 43 cm, 20 microns.

- Flexible.
- Elastic opening and wristband.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	LDPE
Colour:	Blue
Weight:	4 g
Packaging:	Outer Carton (100/1000)
Art:	210.0073B



SLEEVE COVERS

Polyethylene, 60 cm, 25 microns.

- Elastic opening and wristband.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	LDPE
Colour:	Blue
Weight:	5,2 g
Packaging:	Outer Carton (100/1000)
Art:	210.0074B



DISPOSABLE GOWNS

CPE plastic.

- Elasticated wrists.
- Thickness: 30 microns.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	80 g
Packaging:	Outer Carton (15/75)
Art:	210.0085



VISITOR'S COATS

Non-woven polypropylene, knee length.

- Comfortable design allowing great freedom of movement.
- Elastic cuffs maximise fit.
- Made of non-woven polypropylene material with front popper fastenings.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	Non-woven polypropylene
Colour:	White
Weight:	Not Relevant
Packaging:	Outer Carton (1/100)
Art:	210.0090



DISPOSABLE COVERALL

Non-woven polypropylene.

- Coverall protects the wearer's clothing.
- Breathable material reduces the risk of irritation from heat.
- Comfortable design allowing great freedom of movement.
- Elastic cuffs, ankles and waist maximises fit and safety.
- Suitable for direct contact with all types of foodstuffs.

Suitable for: Office cleaning | Goods handling | Light duties.

Sizes:	L XL XXL XXXL
Material:	Non-woven polypropylene
Colour:	White
Weight:	N/A
Packaging:	Outer Carton (1/40)
Art:	210.0095



DISPOSABLE COVERALL

Non-woven polypropylene.

- Coverall protects the wearer's clothing.
- Breathable material reduces the risk of irritation from heat.
- Comfortable design allowing great freedom of movement.
- Elastic cuffs, ankles and waist maximises fit and safety.
- Suitable for direct contact with all types of foodstuffs.

Suitable for: Office cleaning | Goods handling | Light duties.

Sizes:	L XL XXL XXXL
Material:	Non-woven polypropylene
Colour:	Blue
Weight:	N/A
Packaging:	Outer Carton (1/40)
Art:	210.0095B



SHOE COVERS

Pre-bundled for use in shoe cover dispensers.

- Bundles of 110 shoe covers for shoe cover dispensers (art. 904.2000)
- Thickness: 35 microns.
- Suitable for direct contact with all types of foodstuffs.

Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	N/A
Packaging:	Outer Carton (1/3300)
Art:	904.2010



VALVED RESPIRATORS FFP2 NR D

With valve.

- Single use product (NR).
- Meet the clogging resistance requirements (D).
- Ultra-light and maintenance-free.
- Easy to apply and comfortable to wear.
- Adjustable nosepiece and soft foam gasket.
- Conforms to EN 149:2001+A1:2009.

Sizes:	One size
Material:	PP
Colour:	White
Weight:	N/A
Packaging:	Outer Carton (10/20)
Art:	210.1012







OTHER PRODUCTS

GLOVE CLIP
004.0020





GLOVE CLIP, PINCH CLASP

- Features patented safety breakaway design.
- Attaches to belt loops or clothing.
- Non-conductive and non-corrosive.



GLOVE CLIP, BELT CLASP

- Features patented safety breakaway design.
- Attaches to belt.
- Non-conductive and non-corrosive.



SOCKS

Norwegian wool.

- 78% wool, 20% polyamide, 2% Lycra.
- Normal length.



DISPENSERS FOR SINGLE-USE PRODUCTS

Solid plastic.

- Highly practical dispenser installed vertically on the wall.
- Empty the bag of disposable products straight into the dispenser.
- Features a viewing window to check product levels within, and a hinged top for refilling.



Category:	CE
Sizes:	N/A
Material:	Plastic
Colour:	Blue
Weight:	N/A
Packaging:	Piece
Art:	004.0020



Category:	CE
Sizes:	N/A
Material:	Plastic
Colour:	Blue
Weight:	N/A
Packaging:	Piece
Art:	004.0021



Category:	N/A
Sizes:	37-40 40-43 44-47
Material:	Wool/Polyamide/Lycra®
Colour:	Grey
Weight:	21 g
Packaging:	Pair (120)
Art:	211.630



Category:	N/A
Sizes:	One size
Material:	Plastic
Colour:	Blue, White
Weight:	N/A
Packaging:	Piece (1)
Art:	214.64110



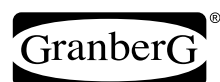
GLOVE DISPENSERS

Plexiglass.

- Universal. Fits most boxes of disposable gloves.
- 25 cm long, 13 cm high and 8 cm deep.

Suitable for: Art.111.200, 111.220, 111.225, 111.325, 111.420, 111.525, 114.610, 114.611, 114.620, 114.621, 114.622, 114.624, 114.628, 114.770, 114.880, 114.940, 114.950, 114.955.

Gloves are not included.



Category:	N/A
Sizes:	One size
Material:	Plexiglass
Colour:	Transparent
Weight:	350 g
Packaging:	Outer case (1/2)
Art:	904.1000



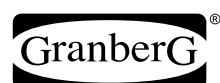
GLOVE DISPENSERS

Plexiglass.

- Created for use with single use gloves art. 112.110 and 114.626 dispensers.
- 25 cm long, 13 cm high and 10 cm deep.

Suitable for: Art.112.110, 114.626.

Gloves are not included.



Category:	N/A
Sizes:	One size
Material:	Plexiglass
Colour:	Transparent
Weight:	380 g
Packaging:	Outer case (1/2)
Art:	904.1300



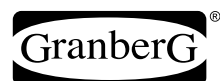
GLOVE DISPENSERS

Plexiglass.

- Created for use with single use gloves art. 111.0092, 111.0094, 114.615, 114.616 and 114.970 dispensers.
- 26,5 cm long, 14,5 cm high and 6 cm deep.

Suitable for: Art.111.0092, 111.0094, 114.615, 114.616, 114.970.

Gloves are not included.



Category:	N/A
Sizes:	One size
Material:	Plexiglass
Colour:	Transparent
Weight:	334 g
Packaging:	Outer case (1/2)
Art:	904.1400





SHOE COVER DISPENSERS

Simple mechanical design. No power needed.

- Shoe covers are automatically applied, with no need for the user to bend down.
- A bundle of 110 shoe covers can be quickly and easily loaded into the dispenser.
- With no need for electrical power, the shoe cover dispenser can be placed anywhere.
- The internal mechanical design is so simple it cannot be damaged.
- Makes cleaning easier and less costly.

Suitable for: Hospitals | Oil rigs | Factories | Laboratories |
Offices | Computer rooms, etc.



SHOE COVERS

Pre-bundled for use in shoe cover dispensers.

- Bundles of 110 shoe covers for shoe cover dispensers (art. 904.2000).
- Thickness: 35 microns.



FLOOR STANDS

Steel.

- Flexible placement of suspension hooks to accommodate the gloves on the racks.
- The floor stand has a removable wire basket for placement of additional products, brochures or other related items.
- Mobile. Fitted with wheels for easy relocation even with products mounted.
- 59 cm wide, 195 cm high, 50 cm deep.
- 15 suspension hooks.

Also available in 80 cm height.



DESK STANDS

Steel.

- Flexible placement of suspension hooks to accommodate the gloves on the racks.
- 44 cm wide, 80 cm high, 34 cm deep.
- 3 suspension hooks.

Also available in 195 cm height.



Category:	N/A
Sizes:	One size
Material:	Plastic
Colour:	White
Weight:	10 kg
Packaging:	Piece (1)
Art:	904.2000



Category:	N/A
Sizes:	One size
Material:	CPE
Colour:	Blue
Weight:	N/A
Packaging:	Outer Carton (1/3300)
Art:	904.2010



Category:	N/A
Sizes:	One size
Material:	Steel
Colour:	Black
Weight:	N/A
Packaging:	Piece
Art:	995.7100GB



Category:	N/A
Sizes:	One size
Material:	Steel
Colour:	Black
Weight:	N/A
Packaging:	Piece
Art:	995.7200GB

STANDARDS AND MARKINGS

European standards have been developed to unify national provisions relating to PPE across Member States. Council Directive 89/391/EEC sets broad guidelines for health and safety at workplace and places a duty for employer “to make appropriate personal protective equipment available to their staff”.

It also introduces strict requirements for PPE suppliers. Now these requirements are acknowledged internationally helping employers to choose the right PPE, including protective gloves.

EN 420:2003

General requirements for protective gloves.

All PPE protective gloves must comply with this standard. It covers areas including:

DESIGN AND CONSTRUCTION

Gloves should provide the highest degree of protection for intended area of use.

SAFETY AND INNOCUOUSNESS

- Glove itself should not cause any harm to user.
- pH value should be between 3.5 and 9.5.
- Chromium VI content should not exceed < 3 mg/kg.
- Latex gloves should be tested on protein content as per EN 455-3.
- Gloves that are designed to reduce the risk of electrostatic discharges, should be tested as per EN 1149 for electrostatic properties.

DEXTERITY

Performance is graded as per table below:

PERFORMANCE LEVEL	SMALLEST DIAMETER (MM) OF PIN THAT CAN BE PICKED UP WITH A GLOVED HAND 3 TIMES IN 30 SECONDS.
1	11,0
2	9,5
3	8,0
4	6,5
5	5,0

COMFORT AND EFFICIENCY

Sizing as per table below:

EN 420	EQUALS	HAND CIRCUMFERENCE/ LENGTH (MM)	MINIMUM LENGTH OF THE GLOVE (MM)
6	XS	152/160	220
7	S	178/171	230
8	M	203/182	240
9	L	229/192	250
10	XL	254/204	260
11	XXL	279/215	270



CATEGORIES

In order to comply with a number of requirements in the commercial sector, protective gloves are separated into three categories:

Category I : For minimal risks.

Category II : For intermediate risks, e.g. mechanical risks.

Category III : For irreversible or mortal risks, e.g. injuries from chemicals.

A declaration of conformity is required for all categories. The manufacturer or importer must provide a declaration of conformity upon request.

General requirements for instruction of use must include:

- Name and address of the manufacturer or representative.
- Glove designation.
- Available size range.
- CE mark.
- Care and storage instructions.
- Instructions and limitations of use.
- Name and address of notified body that certified the product.

EN 388:2016



PROTECTIVE GLOVES AGAINST MECHANICAL RISKS

The European Standard EN 388:2016 deals with the requirements for safety gloves providing protection against mechanical risks. This covers abrasion, blade cut, puncture, tearing and impact.

The EN 388:2016 standard is a revised and updated version of EN 388. In certain circumstances, this new EN 388 standard requires more extensive testing than EN 388:2003. It also rectifies issues which had arisen due to problems with the supply of crucial equipment for the abrasion-resistance test. Other changes include some additional requirements for the user instructions.

EN 388:2016 provides customers with more information and a fuller and in some cases more accurate picture of the properties of each glove model. This can then be of significant help to them in the crucial task of making the right choice of hand protection for their particular needs.

If a glove model does not achieve at least level 1 or A for at least one protective category, the EN 388:2016 pictogram cannot be used.

For gloves to be certified under EN 388, they must also comply with the EN 420 standard for general requirements for protective gloves

PIKTOGRAM AND TEST METHODS

- A Abrasion resistance
- B Circular blade cut resistance
- C Tear resistance
- D Puncture resistance
- E Straight blade cut resistance
- F Impact protection



A Abrasion resistance

The assessment of abrasion resistance is based on the number of abrasion cycles it takes for a particular type of sandpaper to abrade through the glove material.

Test specimens are cut from the palm of sample gloves of the relevant glove model. Each material specimen is fixed on to a holder,

which rubs it against sandpaper of a defined type and quality. This is done under constant pressure and in a pattern consisting of several elliptical movements. One cycle consists of one completed elliptical movement. The number of cycles needed to abrade a hole in the test specimen forms the basis for evaluating the abrasion resistance of the material.

A sufficient number of such tests are carried out to make it possible to identify, according to the requirements of the standard, the final test result, which is used to classify the abrasion resistance of the glove model.

B Circular-blade cut resistance

In this test, assessment of cut resistance is based on how many rotations it takes to cut through the glove material with a rotating circular blade under a fixed load. It is also known as the coupe test.

Test specimens are cut from the palm of sample gloves of the relevant glove model. The circular blade tracks back and forth in a straight line over a fixed distance of the surface of the material. It is exposed to a constant force of 5 newton (N) from above. As the blade is being drawn over the material in one direction, it rotates in the opposite direction, and each pass over the material in one direction corresponds to one rotation of the blade around its axis. The number of rotations needed for the blade to cut through the material is recorded.

Before and after each such test on the glove material, the same test is performed on a reference material of cotton. Cut resistance is then calculated in the form of an index value. This is a function of the result of the test on the test specimen and the average value of the results from the two tests on the reference material.

A sufficient number of such test sequences are carried out to make it possible to identify, according to the requirements of the standard, the final test result. This cut index is used to classify the circular-blade cut resistance of the glove model.

However, highly cut-resistant and abrasive materials often blunt the blade during the relatively lengthy use it is exposed to in the coupe test. The results may then be inaccurate.

EN 388:2016 introduces criteria to determine if the material dulls the blade beyond a certain tolerance level during the coupe test, and it furthermore limits the test to a maximum of 60 rotations. If the blade becomes dull, it is obligatory to perform the test in EN ISO 13997 (the TDM test), and the result from this test becomes the reference for the cut resistance of the glove model. In this case, an X may be recorded in the spot for the coupe results. Alternatively, the coupe test may still be performed, and both this and the TDM result recorded in their respective spots, but the coupe result is then only indicative.

It is important to note that even when it is not obligatory, it is still possible to have the TDM test performed and record the result under the pictogram. It is also possible to have only the TDM test done.

C Tear resistance

Assessment of tear resistance is based on the amount of force it takes to tear in two a material specimen which has already been slit.

Material specimens are cut from the palm of gloves of the relevant glove model. In each specimen, a slit of a certain length is made from one end so that it separates two sections along the length of the slit, somewhat like trouser legs. The end of either "leg" is clamped in a separate jaw. These two jaws then move apart at a constant speed until the specimen is torn completely in two. The force required for this is measured in newton (N).

A sufficient number of such tests are carried out to make it possible to identify, according to the requirements of the standard, the final test result, which is used to classify the tear resistance of the glove model.

D Puncture resistance

The assessment of puncture resistance is based on the amount of force it takes to penetrate the glove material with a certain kind of pencil-like object with a rounded point.

It is very important to note that this test does not give any indication of the resistance of the material to penetration by sharply pointed objects such as hypodermic needles.

Material specimens are cut from the palm of sample gloves of the relevant glove model. A test specimen is fixed on a retaining device. A rounded steel stylus of specified dimensions is then mechanically pushed through the material at a constant speed of 100mm/min. The force it takes for the stylus to penetrate completely through the test specimen is measured in newton (N).

A sufficient number of such tests are carried out to make it possible to identify, according to the requirements of the standard, the final test result, which is used to classify the puncture resistance of the glove model.

E Straight-blade cut resistance, EN ISO 13997

This method simulates a cut resulting from an accidental, relatively powerful contact with a sharp-edged object. The assessment of cut resistance is here based on the force it takes for a straight blade of specified dimensions to just cut through a material after a blade movement of 20 mm. This force is measured in newton (N).

With the 2016 version, this test for cut resistance according to EN ISO 13997 is for the first time fully included in the EN 388 standard. It is also called the TDM test. This test is obligatory in those cases where the glove material dulls the blade beyond a certain tolerance level during the coupe test, and the TDM result then becomes the reference for the cut resistance of the glove model.

There are now many glove models on the market that are made of the kind of highly cut-resistant and abrasive materials which under EN 388:2016 must be tested according to EN ISO 13997. This is often the case with materials with fibres of glass or steel.

Test specimens are cut from the palm of gloves of the relevant glove model, and each in turn mounted on a slightly curved surface. This method involves a number of cuts that are each achieved with a single, relatively short blade stroke in one direction only and over an unused part of the material.

Importantly, each cut must be achieved with an unused part of the cutting edge. Consequently, no part of the blade can be drawn over the material more than one single time. This can in practice mean that each blade is only used once and then replaced with a new blade for the next cut to make sure this does not happen. Blunting of the blade is thus not a significant factor.

A complicated process eventually makes it possible to identify with sufficient accuracy the force needed for the blade to just cut through the sample material after travelling 20 mm (with a certain permitted divergence either side in the length of the movement of the blade before it cuts through).

The final test result is determined according to the requirements of the standard. This force is used to classify the straight-blade cut resistance of the glove model.

The performance levels, also known as cut levels, range from A to F, with level F as the highest.

Even when not obligatory, the TDM test may be performed and the result then also recorded under the pictogram. It is also possible to have only the TDM test done.

It is important to note that there is no correlation between the results achieved in the coupe test and those achieved in the TDM test.

F Impact Protection

EN 388:2016 introduces a test to assess the impact protection of gloves that have such protection added to one or several applicable parts, for instance the knuckle area of the back of the hand (i.e. the knuckles at the base of the fingers).

The test is performed in accordance with 6.9 of EN 13594:2015, which is a standard for protective gloves for motorcycle riders. It is optional, but impact protection may not be claimed for glove models certified under EN 388:2016 unless this test has been carried out and passed for each area of the glove for which such impact protection is claimed. Due to the limited dimensions of glove fingers, the fingers cannot be tested according to this method. The user instructions must state the parts of the glove for which impact protection is claimed and highlight that this protection does not apply to the fingers.

Sample gloves of the relevant model are cut so that the gloves may be opened and the relevant area tested in isolation. A 2.5kg flat-face striker impacts the test area from a sufficient height to create an impact energy of 5J. The performance of the area is based on the force transmitted through the material. This force is measured in kilonewton (kN).

A sufficient number of tests are conducted to identify, according to the requirements of the standard, the final test result. This is a pass or fail test. Each of the areas for which impact protection is claimed must achieve the minimum requirements for level 1: The average transmitted force must not be higher than 7 kN, and no individual result may have a value of more than 9 kN.

If the glove model passes the test, a P may be recorded in the sixth spot under the EN 388:2016 pictogram.

PROTECTION LEVEL	1	2	3	4	5
A Abrasion resistance (no. of cycles)	100	500	2 000	8 000	
B Circular-blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0
C Tear resistance (N)	10	25	50	75	
D Puncture resistance (N)	20	60	100	150	

PROTECTION LEVEL	A	B	C	D	E	F
E Straight blade cut resistance (N) (EN ISO 13997)	2	5	10	15	22	30

PROTECTION LEVEL	P
F Impact protection (kN)	Min. level 1 (average ≤7 kN, each individual result ≤9 kN)

EN ISO 374:2016



PROTECTIVE GLOVES AGAINST DANGEROUS CHEMICALS AND MICROORGANISMS

The new suite of EN 374 standards contains updated requirements and tests for gloves intended to protect users against chemicals and/or microorganisms. We refer to this updated group of standards as EN ISO 374:2016. It provides customers with more information on some aspects of the protective qualities of gloves in this category.

It consists of five parts (each a standard):

- **PART 1:** Terminology and performance requirements for chemical risks (EN ISO 374-1:2016).
- **Resistance to penetration** (EN 374-2:2014)
- **Resistance to permeation by liquid chemicals** (EN 16523-1:2015).
- **Resistance to degradation by chemicals** (EN 374-4:2013).
- **Terminology and performance requirements for microorganisms risks** (EN ISO 374-5:2016)

PART 1: TERMINOLOGY AND PERFORMANCE REQUIREMENTS FOR CHEMICAL RISKS

EN ISO 374-1:2016 concerns gloves intended to protect users against chemical risks. It specifies performance requirements and the terminology and markings to be used, as well as information, warnings and instructions that must be included in the user instructions. We refer to some of these under the relevant test standards.

The standard no longer requires testing according to EN 388, but the gloves must fulfil the general requirements for protective gloves in EN 420.

PART 2: RESISTANCE TO PENETRATION

Liquid or air can penetrate a protective glove on the non-molecular level by passing through pores, seams, pinholes or other imperfections in the material. EN 374-2:2014 contains two tests for resistance to such penetration.

The air-leak test: The glove is immersed in water up to a certain point and filled with air. Any leaks are identified by observation of visible bubbles.

The water-leak test: The glove is filled with water; leaks are identified by water drops appearing on the outer surface.

A number of randomly selected samples from each production batch is tested for penetration. Each batch must fulfil certain minimum requirements for acceptance quality limits (AQL). A customer may agree an AQL with the manufacturer so long as this fulfils or exceeds the minimum requirements.

PART 3: RESISTANCE TO PERMEATION BY LIQUID CHEMICALS

A new standard, EN 16523-1:2015, replaces EN 374-3:2003, the old standard for permeation testing.

Chemicals can move through a material on the molecular level. Molecules are absorbed into the material, spread inside the material by means of an effect known as diffusion, and eventually break through on the other side. This process is called permeation. This can occur without the wearer noticing any physical changes in the glove material. The glove may seem unaffected even though it no longer offers adequate protection.

The time that elapses from the moment the chemical first comes into contact with the outer surface of the glove material until it breaks through on the other side is called breakthrough time.

In the laboratory, permeation is measured by a somewhat complicated parameter called permeation rate. This represents the mass of the chemical, measured in micrograms (µg), that moves through a square centimetre of the material in one minute. Identifying the minimum

detectable permeation rate is highly dependent on the sensitivity of the particular analytical equipment to the particular chemical in question. This makes a comparison of data based on such a rate very difficult. What the standard defines is what we call a normalized permeation rate. The normalized permeation rate for EN 16523-1:2015 is 1 µg per cm² per minute.

The time it takes from the chemical first comes into contact with the outside surface of the material until this normalized permeation rate is reached is called normalized breakthrough time. It is this normalized breakthrough time that is identified in this test.

Test specimens are cut from the palm of gloves of the relevant glove model. A specimen is placed in a test cell, and the outside surface of the material is exposed to the chemical in question. A collection medium in the form of a gas or a liquid circulates in contact with the inside surface of the material. This is monitored and analysed until the normalized permeation rate is reached.

A sufficient number of these tests are performed to make it possible to identify, according to the requirements of the standard, the final test result.

This determines which performance level the glove model achieves for this chemical

PERFORMANCE LEVEL	1	2	3	4	5	6
BREAKTHROUGH TIME (Min)	> 10	> 30	> 60	> 120	> 240	> 480

The glove model must be tested for each chemical that the manufacturer wants to claim it provides protection against. If gloves are 400 mm or longer, and the manufacturer also wants to claim that the cuff protects against the relevant chemicals, test specimens from the cuff must also be tested.

WARNING:

The tests are performed according to the standard, and the results are reported based on the normalized breakthrough times achieved under the very specific test conditions. Glove users must take into consideration the fact that each chemical had a shorter actual breakthrough time during testing. Importantly, users must further take into account the fact that real-life work situations are very different from the controlled environment and conditions of the test. Factors such as temperatures, stretching, abrasion, degradation, etc. have a very great influence on how fast the chemical permeates through the material.

It is the responsibility of employers/users to assess the test data and determine how long the gloves may be used for any given task and in any given situation. The chemical may continue to work through the glove even after a brief, interrupted initial contact. The time it takes a chemical to reach the inside of a glove should therefore be considered to start from the moment the outside surface of the material first comes into contact with the chemical, regardless of whether the glove is in further contact with the chemical or not and whether the glove is being used or not.

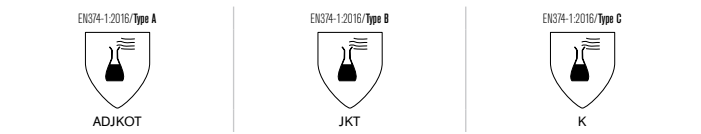
EN ISO 374-1:2016 defines a list of 18 chemicals (6 more than EN 374:2003):

	CHEMICAL	CAS #	CLASS
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Sulphur-containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound
I	Ethyl acetate	141-78-6	Ester
J	n-heptane	142-82-5	Saturated hydrocarbon
K	40% Sodium hydroxide	1310-73-2	Inorganic base
L	96% Sulphuric acid	7664-93-9	Inorganic mineral acid, oxidizing
M	65% nitric acid	7697-37-2	Inorganic mineral acid, oxidizing
N	99% acetic acid	64-19-7	Organic acid
O	25% ammonium hydroxide	1336-21-6	Organic base
P	30% hydrogen peroxide	7722-84-1	Peroxide
S	40% hydrofluoric acid	7664-39-3	Inorganic mineral acid
T	37% formaldehyde	50-00-0	Aldehyde

The new standard separates protective gloves against chemical risks into three categories based on the permeation test results: types A, B and C. For a glove model to be certified under EN ISO 374-1:2016, it must undergo this testing and achieve a protection level which at a minimum satisfies the requirements for type C.

- Type A - Minimum 6 chemicals must reach at least level 2 performance.
- Type B - Minimum 3 chemicals must reach at least level 2 performance.
- Type C - Minimum 1 chemical must reach at least level 1 performance.

The code letters of the relevant chemicals are recorded under the pictogram for EN ISO 374-1:2016.



PART 4: RESISTANCE TO DEGRADATION BY CHEMICALS

Degradation is a detrimental change in one or more of the physical properties of a material.

EN 374-4:2013 contains a test method for degradation resistance which is mandatory under EN ISO 374-1:2016. The principle of this test is to measure whether there has been a change in the puncture resistance of a glove material after its external surface has been exposed to continuous contact with a particular chemical. It involves a test for puncture resistance similar to that of EN 388:2016.

A number of test specimens are cut from gloves of the relevant model. Tests for puncture resistance are performed on both unexposed specimens and specimens that have been exposed to the chemical in question for a certain length of time. The result is based on the average difference between the force needed to puncture the exposed material and the force required to puncture the unexposed material. This difference is reported as a percentage.

For a glove model to be certified under EN ISO 374-1:2016, it must be tested for degradation according to this puncture-resistance test. The test must be performed for each of the chemicals which it is claimed the gloves provide protection against. The standard therefore requires testing for both permeation and degradation resistance for each of the relevant chemicals. There is at the moment no minimum requirements for degradation-resistance results, but they must be recorded in the user instructions.

PART 5: TERMINOLOGY AND PERFORMANCE REQUIREMENTS FOR MICROORGANISMS RISKS

EN ISO 374-5:2016 concerns gloves intended to protect users against microorganisms. The standard specifies performance requirements and the terminology and markings to be used, as well as some information, warnings and instructions required. The gloves must also comply with the general requirements for protective gloves of EN 420.

The previous EN 374 standard only assessed protection against bacteria and fungi, while EN ISO 374-5:2016 also deals with viruses. The new standard has two categories for classification of protection against microorganisms:

- Protection against bacteria and fungi.
- Protection against bacteria, fungi and viruses.

For a glove model to be certified under EN ISO 374-5:2016 for protection against bacteria and fungi, it must pass testing according to EN 374-2:2014 for resistance against penetration.

For an additional claim of protection against viruses, the gloves must also meet the requirements for resistance to penetration of test standard ISO 16604:2004, procedure B. This test standard was reviewed and confirmed in 2014.




EN 407:2004

PROTECTIVE GLOVES AGAINST THERMAL RISKS

This standard specifies thermal performance for protective gloves against heat and/or fire.

The nature and degree of protection is shown by a pictogram followed by a series of six performance levels, relating to specific protective qualities. Gloves must also achieve at least Performance level 1 for EN 388:2003 standard abrasion and tear.

- 
- A** Burning behaviour (X, 0–4)
 - B** Contact heat resistance (X, 0–4)
 - C** Convective heat resistance (X, 0–4)
 - D** Radiant heat resistance (X, 0–4)
 - E** Resistance to small splashes of molten metal (X, 0–4)
 - F** Resistance to large splashes of molten metal (X, 0–4)

A Burning behaviour (Performance level 0-4)

Based on the length of time the material continues to burn and glow after the source of ignition is removed. The flame is held against the material for 15 seconds. The seams of the glove shall not come apart after an ignition time of 15 seconds.

PERFORMANCE LEVEL	AFTER FLAME TIME (Seconds)	AFTER GLOW TIME (Seconds)
1	≤ 20	No requirement
2	≤ 10	≤ 120
3	≤ 3	≤ 25
4	≤ 2	≤ 5

B Contact heat resistance (Performance level 0-4)

Based on the temperature range at which the user will feel no pain for at least 15 seconds. During the testing, glove's material is exposed to high temperatures (up to 500°C). To gain the relevant performance level, the temperature of the inside of the glove cannot increase more than 10°C within the threshold time (15 seconds).

PERFORMANCE LEVEL	CONTACT TEMPERATURE (°C)	THRESHOLD TIME
1	100	15
2	250	15
3	350	15
4	500	15

C Convective heat resistance (Performance level 0-4)

Based on the length of time the glove is able to delay the transfer of heat from a flame. Samples are subjected to the incident heat from a flame, and the amount of time is measured to increase of the glove's inside material by 24°C.

D Radiant heat resistance (performance level 0-4)

Based on the length of time the glove is able to delay the transfer of heat when exposed to a radiant heat source.

E Resistance to small splashes of molten metal (Performance level 0-4)

The number of molten iron (other metals can be tested as required) drops required to heat the glove sample by 40°C, shows the performance level the glove corresponds to.

PERFORMANCE LEVEL	NUMBER OF DROPLETS
1	≥ 10
2	≥ 15
3	≥ 25
4	≥ 35

F Resistance to large splashes of molten metal (Performance level 0-4)

A quantity of molten iron is poured onto the sample, which has simulant of skin attached to the sample. The weight of molten metal is measured of how much molten metal is required to damage the simulant of skin. The test is failed if metal droplets remain stuck to the specimen or if the specimen is punctured or ignites.

PERFORMANCE LEVEL	MOLTEN IRON (G)
1	30
2	60
3	120
4	200

EN 511:2006



GLOVES GIVING PROTECTION FROM COLD (DOWN TO -50°C)

Protection against cold is expressed by a pictogram followed by a series of 3 performance levels, relating to specific protective qualities.

- ABC
- A** Convective cold (X, 0–4)

B Contact cold (X, 0–4)

C Penetration by water (X, 0/1)

- A Resistance to convective cold (Performance level 0 - 4).**
Based on the thermal insulation properties of the glove. The power required to maintain a constant temperature on a heated hand model in a climatic room is measured.
- B Resistance to contact cold (Performance level 0 - 4).**
Based on the thermal resistance of the glove material when exposed to contact with a cold object.
- C Penetration by water (0 or 1).**
0 = water penetrates after 30 minutes of exposure.
1 = water does not penetrate after 30 minutes of exposure.

EN 455



MEDICAL GLOVES FOR SINGLE USE

This standard specifies requirements and tests for gloves for medical purpose. Requirements are detailed in the Medical Device Directive 93/42/EEC.

This includes tests to assess the freedom from holes, the dimensions of the gloves and the mechanical strength of its materials, both before and after an ageing process.

PART 1

EN 455-1 covers requirements and testing of gloves for freedom from holes. For this test the standard uses a water leak test to which randomly sampled gloves are subjected. A statistical sample taken from a batch must achieve an acceptable quality level (AQL) of 1.5 or better in order to be used as examination, procedure or surgical gloves.

AQL 1.5 is equivalent to a maximum risk of 1.5% that any given glove contains a pinhole capable of allowing water, and therefore micro-organisms, through the material.

PART 2

EN 455-2 describes the testing requirements for determination of physical properties, including tensile strength, before and after accelerated ageing, of medical gloves. Gloves are treated differently depending on the use they are intended for and the material they are manufactured from.

PART 3

EN 455-3 covers requirements and testing for biological evaluation. It specifies methods for protein testing (extractable latex proteins have an important role in latex allergy), powder levels, and endotoxin levels.

PART 4

EN 455-4 covers requirements and testing for shelf life determination. It specifies real-time and accelerated shelf life studies, to enable manufacturers to prove that their product will withstand up to 3 years (usually) without losing their properties as well as complying with the requirements of the EN 455.

EN 12477:2001



PROTECTIVE GLOVES FOR WELDERS

This standard applies to protective gloves for use in manual metal welding, cutting and allied processes. It includes reference to EN 420, EN 388 and EN 407 requirements.

Compliance to EN 420, except for lengths::

SIZE	6	7	8	9	10	11	
	300	310	320	330	340	350	MM

TYPE A: Lower dexterity and higher performance for physical characteristics. This type is recommended for all welding operations where higher protection would be needed, except TIG* welding.

TYPE B: Higher dexterity and lower physical performance. This type is recommended for TIG* welding.

*) Tungsten inert gas (TIG) welding is an arc welding process that uses a non-consumable tungsten electrode to produce the weld.

MINIMUM PERFORMANCE REQUIRED

REQUIREMENTS	STANDARD	TYPE A	TYPE B
Abrasion resistance	EN 388	Level 2	Level 1
Blade cut resistance	EN 388	Level 1	Level 1
Tear resistance	EN 388	Level 2	Level 1
Puncture resistance	EN 388	Level 2	Level 1
Burning behaviour	EN 407	Level 3	Level 2
Contact heat resistance	EN 407	Level 1	Level 1
Convective heat resistance	EN 407	Level 2	—
Resistance to small splashes of molten metal	EN 407	Level 3	Level 2
Dexterity	EN 420	Level 1	Level 4

*) Tungsten Inert Gas (TIG) welding is a method of arc welding that uses a non-melting electrode made from wolfram to produce the weld seam. This method is now officially called Gas Tungsten Arch Welding (GTAW).

GLOVE MATERIALS AND DEFINITIONS

NATURAL MATERIALS

BAMBOO

Bamboo is natural fiber made from a herbaceous plant, it's very soft, velvety and slightly glossy. Bamboo fiber has anti-microbial and anti-fungal properties that are retained even after numerous washings. Those anti-microbial properties reduce or remove the unpleasant odors that can develop when wearing other gloves.

Bamboo is an ecologically sound crop, no pesticides are used in its cultivation and Bamboo fiber can absorb moisture 3-4 times faster than cotton and it dries twice as fast. This amazing natural fiber is non-irritant to the skin so Bamboo gloves are an essential alternative for people who suffer from allergies and sensitive skin conditions.

COTTON

Cotton (CO) is a plant that is usually processed to yarn, suitable for soft, air permeable textile production. Woven or knitted cotton textile features great moisture absorption, it is easy to wash; it does not acquire electric charge and does not change its features for up to 150°C.

Thus it is perfectly suitable for clothing that is in direct contact with the skin. The recommended washing temperature of cotton textile is up to 60°C. Cotton is often mixed with different yarns, especially polyester and polyamide. These synthetic fibers ensure durability of the fabric. The cotton fiber is not elastic, thus it is often mixed with elastane.

LATEX

Latex is elastic and highly durable material that is made of rubber tree sap. Rubber is elastic because of its macromolecules form spirals. The molecules elongate when stretched and coil into spirals when released. This specific feature enables latex to adapt naturally to different hand shapes. It is very elastic (elongations limit 750 %) and has long life span.

Latex provides good protection against majority of alkaline products and detergents. Latex is very durable, tear resistant but it can be punctured with sharp objects. The major drawback of latex is its composition that contains proteins and chemical allergens.

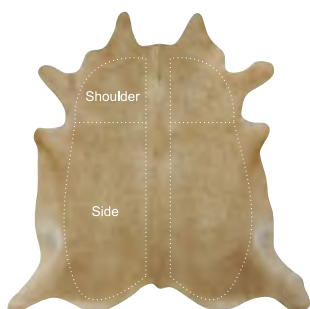
LEATHER

Leather is durable, pliable and supple and has exceptionally good breathable properties. Furthermore, it has the ability to absorb moisture, which means a leather glove rarely feels moist, but is instead dry and comfortable.

To soften the leather, Chromium is added during the tanning process. This can cause allergic reactions in certain individuals. An upper limit is therefore specified for Chromium (VI) content in leather gloves. EN 420 specifies this limit as max. 3 mg/kg Chromium (VI).

SPLIT AND GRAIN LEATHER - WHAT'S THE DIFFERENCE?

The properties of hide/skin varies, depending on which part of the animal the hide/skin comes from. Hide/skin from the sides has the highest durability. Hide/skin from the shoulders is also durable, but less than side split leather.



GRAIN/NAPPA LEATHER

Grain/nappa leather is made from the smooth surface of the hide/skin and is durable, supple, sensitive and moisture absorbing. It therefore makes an excellent choice for e.g. assembly gloves, where the requirements to dexterity are high.

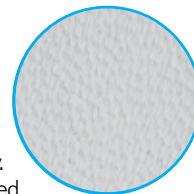
SPLIT/SUEDE LEATHER

Split/suede leather has a rougher surface than grain leather. It comes in a number of thicknesses and is heat resistant. For this reason, split leather is highly suitable for work gloves designed for rough handling or for welding gloves, which must withstand high temperatures and sparks.



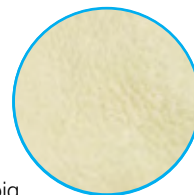
GOATSKIN

This leather features detailed and embossed grain appearance, i.e. beautiful natural leather surface pattern. Goatskin is distinguished by its suppleness, low thickness and relatively high durability. The grain layer of some leather types is slightly polished and acquires a beautiful appearance while being lightweight and elastic.



PIG GRAIN

Pig grain is leather differing from the other types. Its grain layer features random relatively big bristle pores, creasing and slightly rough grain pattern.



As bristles grow from relatively deep layers, thus pig grain has little channels throughout its whole length and they increase water permeability and maceration. The leather thickness is slightly uneven. This leather features low wearing, relatively high durability but low elasticity.

COW GRAIN

Cow grain leather features good appearance, suppleness, tender and even surface, fine grain pattern and relatively even thickness within the whole area.



Cow grain leather is very strong. The cow leather differs from the calf leather by its grain pattern which is slightly rougher, it features greater thickness and rigidity. Cow grain features lower water permeability and maceration if compared to pig grain.

COW SPLIT

Cow split is leather with a fluffy surface. The fluffiness is achieved by polishing the inner surface. Due to the polishing the cow split leather is less durable than cow grain. However cow split leather features an even layer of thickness throughout the whole area.

Cow split leather is soft, supple and tender and it has good physical and mechanical properties. Cow split surface has small funnel-like bristle pores that are almost invisible as they are covered by longer fuzz. Cow split leather features significantly lower water permeability and maceration if compared to pig split.

SYNTHETIC MATERIALS

NITRILE

Nitrile is synthetic acrylonitrile and butadiene polymer. Nitrile gloves were developed as a solution for the growing group of people who are developing allergies to latex gloves. Nitrile has more advantages, as it is made of synthetic rubber that is not an allergen.

Another important feature of nitrile gloves is their durability. The nitrile glove is 3 times more puncture resistant than latex or a vinyl. After having improved production processes, the characteristics of nitrile gloves can be closely compared to their latex counterparts with their level of comfortability, elasticity (elongation limit 500%) and adaptability to hand shape.

Nitrile gloves are widely used in machine repair shops and households when there is direct contact with lubricants, automotive petrol or other chemicals. Nitrile gloves are suitable to use at high temperatures. However they should be stored at low temperatures, in a dry and dark places. Nitrile is not as "sticky" as latex and the majority of people do not have problems when putting on and taking off the gloves. However nitrile is not as elastic as latex, therefore it is imperative to choose correct size gloves.

NEOPRENE

Neoprene is synthetic chloroprene rubber. Neoprene is non-flammable, more durable than natural rubber and it is oil and solvent resistant. Neoprene features both good chemical stability and elasticity within a wide temperature range. This material contains millions of pores (air gaps) in which air is warmed to human body temperature. Thus it has good heat protective features. The thicker is neoprene, the better thermal protection feature. This material is often used for glove cuffs and production of cold and moisture resistant gloves.

VINYL

Vinyl is not as durable and elastic as latex or nitrile. It can be torn more easily; it also has an unpleasant odour and can be easily punctured. Vinyl is easier to obtain and is less expensive than latex and nitrile. Vinyl gloves do not fit snugly around the wrist, and they do not protect sufficiently against liquid penetration if the material is being stretched. Their low elasticity limits their comfortability and snug fitting on the hand.

Vinyl does not contain natural rubber proteins or chemical accelerators and is therefore the most skin-friendly material available. Vinyl gloves are economic choice for the activity that does not require high touch precision. Thus, vinyl is a perfect choice for low risk activities.

PVC

PVC is polyvinyl chloride that is produced from oil and table salt. PVC flexibility-rigidity scale is very wide, thus it can be extruded, rolled or sprayed. This is a very durable material that is resistant to acids, alkalis and alcohol. It can also acquire any desired color. A polymer with good chemical resistance features, low flammability class and good UV resistance is widely used in working glove production.

POLYURETHANE (PU)

Polyurethane (PU) is thermoplastic elastomer, and it is very elastic material with good anti-friction characteristics. Glove palm coated with solid polyurethane is thin, straight and flexible. Glove palm coated with polyurethane microfoam is soft, water and lubricant resistant.

Polyurethane microfoam is air permeable and hands remain cool and dry. Polyurethane microfoam is rather flexible, it features great adhesion to the necessary surface both in wet and dry environments, and it also has good heat protective characteristics.

WATER BASED POLYURETHANE (PU)

Water based polyurethane (PU) is polyurethane without DMF (dimethylformamide) solvent and it is commonly used coating of gloves. Water based PU features more rapid degradation in the environment if compared to the traditional PU with DMF solvent.

MICROSKIN SHIELD®

MicroSkin Shield® is an exceptionally elastic fabric with good anti-friction capability, the core of which consists of an exceptionally strong, abrasion resistant, water repellent polyester yarn. Polyurethane coating of microstructure pattern guarantees flexibility and a perfect grip with different surfaces; it also improves resistance to water and grease.

MACROSKIN PRO®

MacroSkin Pro® is a mechanically strong and very elastic material. It is also soft and thin, while its surface is quite smooth and, therefore, pleasant to touch. The fabric structure consists of the combination of nylon and polyester, which improves abrasion resistance, guarantees wrinkle resistance and fast moisture release. The above mentioned qualities make it possible to use the fabric for gloves production for a wide range of purposes.

G-TECH®

G-Tech® is a fabric that offers strong grip. The special structure surface formed of PVC enables to expel moisture when working in wet conditions and guarantees good fabric flexibility. The core of G-Tech® is strong, soft and wrinkle resistant knitted fabric from polyester and cotton.

TYPHOON®

Typhoon® is an extremely strong (yield strength) fibre combination characterised by the highest level cut-resistance. Thanks to the applied technological solutions, the fibre combination consists of high molecular weight polyethylene, glass fibre and elastane/spandex. The yarn consisting of such fibres is elastic, characterised by air permeability and resistance to moisture. Typhoon® is light, 10 to 15 times stronger than steel (per unit weight) and up to 40% stronger than aramid fibers.

PROTEX® MEMBRANE

Protex® membrane is polyurethane membrane that consists of numerous micropores that are smaller than a drop of water but bigger than a molecule of moisture vapor. The membrane structure prevents water drops from entering, however sweat can easily evaporate outside. The result of such process is a non-permeable, wind resistant and "breathing" membrane.

CORDURA®

Cordura® is a long-lasting, very solid and abrasion resistant material. It is polyamide fabric with durable polyurethane coating that is treated with water resistant Teflon® coating. Cordura® is a patented trademark of DuPont™ used for any durable material of this category irrespective of thickness. The Cordura® material is stain resistant, fairly easy to clean and has an exceptional strength-to-weight ratio.

KOZANE®

Kozane® is an innovative high-tech material with greater cut, abrasion and slash resistance than any other textile or fabric in its class. Yet it is soft and flexible enough to make into protective clothing that won't make you feel like you're wearing a suit of armour.

KEVLAR®

Kevlar® is para-aramid fiber that is highly durable, flexible and relatively light-weight. Kevlar® tensile resistance is five times higher if compared to steel, and it is heat resistant even up to 370°C. This fiber is non-flammable and extremely cut resistant. The yarn that is made of this fiber is suitable both for woven and knitted fabric productions, technical textile, and widely used for production of bulletproof vests, military or firefighter clothing and cut resistant gloves. Usually the yarn of Kevlar® fiber is used for sewing of heat resistant gloves.

ELASTANE

Elastane (EL) is synthetic elastomeric fiber with at least 85% of polyurethane. It is elastic, and even when stretched to triple the length it will immediately return to its original form as soon as tensile force is eliminated. The monofilament or multifilament yarns of this fiber are used as components for different fiber compositions. Yarns with elastane ensure high elasticity of polyester, nylon, cotton or other composition materials, and the clothing made with these fabrics ensure that they provide a comfortable and snug fit around the body.

SPANDEX®

Spandex® is the name of elastomeric fiber (elastane) that is standardized in the USA. According to ISO standard this fiber is called elastane.

LYCRA®

Lyra® is the trademark of DuPont™ and it describes elastane (EL) without latex or natural rubber (e.g. elastane of other trademarks may contain some percent of latex).

NYLON

Nylon is the trademark of polyamide fiber. This synthetic fiber is stretchy, durable and very resistant to wear and chemical reagents. It features better moisture absorption properties than other synthetic materials. Nylon is sensitive to sunlight and acquires a yellowish hue, thus it is often mixed with other fibers.

ACRYLIC FIBER

Acrylic fiber is synthetic fiber that contains at least 85% of acrylonitrile. It features flexibility, resistance to moths, petrol and chemical products, as well as direct sunlight. Acrylic fiber is usually used for knitted textile, e.g. fleece wear, sports and children garments.

POLYETHYLENE (PE)

Polyethylene is a thermoplastic, elastic and nontoxic polymer. It features high flame resistance and once ignited burns without soot. It is not soluble in any of the normal solvents at room temperature. It is chemical resistant to acids, alkalis, salt solutions and it is light-permeable. The main features of polyethylene are its density and melting index. When the density increases, the impact resistance and transparency decrease and there is a rise in melting temperature, density, strength, chemical resistance and impermeability to gas and odour.

With the decrease of polyethylene melting index, its recyclability is impaired; however it features better resistance to impact, chemicals and wearing as well as has better sliding performance. In order to improve polyethylene characteristics, it has been modified by the following characteristics:

LDPE - low density polyethylene (density 910 - 925 kg/m³) without extra polymerization. Such polyethylene is viscous and soft.

MDPE - medium density polyethylene (density 925 - 940 kg/m³) that combines the best characteristics of LDPE and HDPE.

HDPE - high density polyethylene (density 940 - 970 kg/m³). It is one of the most practical and cheapest materials and is very solid and durable but features less elasticity if compared to other polyethylenes.

EVA

EVA is ethylene vinyl acetate copolymer. If contains small amounts of vinyl acetate (up to 6%), EVA is attributed to high pressure polyethylene group materials. If it contains a higher percentage of vinyl acetate, the material elasticity is proportionally increased. The material is highly water and gas resistant.

POLYESTER

Polyester (PES) is a widely used synthetic heterochain polymer that is produced from petrol. This fiber is friction resistant, almost wrinkle-free, durable, and does not absorb moisture which expedites the drying process.

Polyester is often mixed with wool, cotton or linen in order to increase durability, softness and glossiness, and reduce creasing of woven or knitted fabrics. Polyester products do not require special maintenance. However it should be noted that clothing with high polyester content should be kept away from heat and direct sunlight.

POLYPROPYLENE

Polypropylene (PP) is more durable and more temperature-resistant if compared to polyethylene. Polypropylene density is one of the lowest (approx. 0.9 g/cm³) of all plastics. The maximum polypropylene usage temperature is 120-140°C.

All polypropylene products can be often sterilized by vapor or boiling as this does not influence their shape or mechanical features. PP surpasses PE by its heat resistance features; however it is less cold resistant and becomes brittle at -5°C. Thus PP manufacturers add special additives to increase its resistance to low temperatures.

NON-WOVEN POLYPROPYLENE

Non-woven polypropylene is non-woven fabric made of very thin plastic (polypropylene) fibers. Non-woven polypropylene is very practical fabric because it is very durable, soft, light-weight and cheap. Moreover, this fabric is easily recyclable after usage. It is most often used for surgical mask and gown production.

POLYAMIDE

Polyamide is synthetic fiber that is extremely resistant to friction (about 10 times greater than cotton and 20 times more than wool). The polyamide fiber is very stretchy and static charge resistant. It is very light-weight, almost impermeable to water, non-creasing and durable.

Polyamide is not flame-resistant and moreover melts when burning. Thus polyamide is often mixed with natural fibers and it increases their durability and life time. Non rinsing products should be used for washing. The most popular type of polyamide is nylon.

**FOR SOME PEOPLE , STAYING
SAFE DOESN'T MEAN STAYING
OUT OF HARM'S WAY.**

We strive to make your job easier and more safe by offering you the best hand protection there is.

Your dealer is:

