

WHAT MAKES ATG GLOVES DIFFERENT?

ATG technology platforms are continuously developed by a core team that matches market research and marketing analysis with the latest technological developments. This forms the foundation upon which we continually improve the customer's experience through constant innovation.

ATG Technology Platforms

I. Comfort Platforms



-apt

AirTech

Offers 360° breathability

- 1) Eliminate heat buildup inside the glove
- 2) Allowing hand to breathe; cool hands are happier, safer and more productive

AD-APT

All Day – Anti-Perspirant Technology

- 1) When hand temperature increases; integrated micro-capsules are activated, which releases a natural antiperspirant
- 2) AirTech lets hot air out of the gloves
- 3) 360° breathability allows cool air in the gloves

ErgoTech

Glove acts as second skin giving a better fit and feel

- 1) Less hand fatigue
- 2) Better flexibility, dexterity and sensitivity
- 3) 0% penetration of coating; no irritation to user's hands

ThermTech:



For Protection against hot or cold

High thermal insulation properties; without sacrificing flexibility, dexterity, weight and comfort. Coating and seamless knitting technologies that impart thermal insulation properties to resist cold.





DuraTech

For long lasting gloves

- 1) Longer life saves money
- 2) Can be laundered up to 6 times to ensure gloves are always clean and fresh

CutTech

For protection against cuts

- 1) High performance cut-resistant yarns and fibers; offers high comfort and user satisfaction
- 2) Reinforcement between thumb and first finger add strength to an inherently weak area in most gloves



GripTech

"Micro-cup" finish enhances grip properties

- 1) With optimized grip a cut level 2 or 3 is equivalent to cut level 4/5, as if it won't slip, then it won't cut
- 2) Less hand fatigue as it needs less force to grip and lift



LiquiTech

For protection against oils, liquids and chemicals Liquid repellence while being lightweight and flexible. Also, High grade chemical resistance available

Hand Care Compliance

All our gloves are dermatologically approved by the Skin Health Alliance and are post washed prior to packaging "fresh out of the pack", as certified by Oeko-Tex. Moreover, all the ingredients used in the production of our gloves are according to REACH and contains no SVHC "Substances of Very High Concern".



HOW TO FIND YOUR ATG GLOVE?

How it works:

- **1**. Select your working environment
- 2. Select the cut resistance you need
- 3. Find your Glovesolution



MaxiCut

Styles: MaxiCut Ultra 44-3745 44-3445 44-6745



MaxiCut

Styles: MaxiCut Oil 44-504 44-505

MaxiCut

MaxiChem

Med Cut Risk



Styles: MaxiFlex Cut 34-8743 34-8443 34-6743

MaxiFlex



Styles: MaxiCut Oil 44-304 44-305

MaxiCut



Styles: MaxiChem Cut 56-633

Low Cut Risk



Styles: MaxiFlex Ultimate 42-874, 875 MaxiFlex Endurance 42-844, 848 MaxiFlex Elite

MaxiFlex

DRY Environment Precision Handling



OILY Environment Precision Handling

Styles: MaxiDry 56-424 56-425 56-426 56-427



Styles: MaxiChem 56-630 56-635

MaxiChem



Please ensure that if you are working with chemicals that the gloves have the chemical pictogram printed on the glove and are suitable for the chemical that you are exposed to

Precision Handling With Low Cut Risk In Dry Environment

MaxiFlex Ultimate



MaxiFlex Endurance



42-874

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Grey nylon, spandex
- Palm Thickness: 1.00 mm
- Length: 22.5 cm
- Sizes: Size 5 (XXS) Size 12 (XXXL)
- EN 388:2016:4131A
- Dexterity Level: 5
- Silicon Free: Yes



42-844

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile with raised dots
- Liner: Dark grey nylon, spandex
- Palm Thickness:1.10 mm
- Length: 23 cm
- Sizes: Size 5 (XXS) Size 12 (XXXL)
- EN 388:2016: 4131A
- Dexterity Level: 5
- Silicon Free: No



MaxiFlex Elite



34-274

- Design: Palm coated, seamless knitted gloves
- Coating: Dark blue micro-foam nitrile
- Liner: Dark blue nylon, spandex
- Palm Thickness: 0.75 mm
- Length: 23 cm
- Sizes: Size 6 (XS) Size 12 (XXXL)
- EN 388:2016: 4121A
- Dexterity Level: 5
- Silicon Free: Yes



ESD 34-774B

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Light grey nylon, carbon, polyester, spandex
- Palm Thickness: 0.75 mm
- Length: 22.5 cm
- Sizes: Size 6 (XS) Size 12 (XXXL)
- EN 388:2016: 4121A
- Antistatic Properties EN 16350:2014: Rv<1,0x10 ^ 8Ω
- Silicon Free: Yes

Precision Handling With Low Cut Risk in Oily Environmet



MaxiDry



56-424

- Design: Palm coated, seamless knitted gloves
- Coating: Purple nitrile coated, black micro-foam nitrile
- Liner: Grey nylon, spandex
- Palm Thickness:1.30 mm
- Length: 24 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388:2016: 4121A
- Dexterity Level: 5







56-426

- Design: Gauntlet coated, seamless knitted gloves
- Coating: Purple nitrile coated, black
 micro-foam nitrile
- Liner: Neutral nylon
- Palm Thickness: 1.10 mm
- Length: 26 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388:2016: 4111A
- Dexterity Level: 5
- Liquid Proof: Yes

MaxiDry Zero





56-427

- Design: Fully coated, seamless knitted gloves
- Coating: Purple nitrile coated, black micro-foam nitrile
- Liner: Grey nylon, spandex
- Palm Thickness: 1.30 mm
- Length: 25 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388:2016: 4121A
- Dexterity Level: 5



56-451

- Design: Fully coated , seamless knitted gloves
- Coating: Purple nitrile coated, black
 micro-foam nitrile
- Liner: Grey nylon, spandex
- Palm Thickness: 1.8 mm
- Length: 26 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388:2016: 4232B
- EN 511:2006: 021
- EN 407:2004: X1XXXX
- Silicon Free: Yes
- Food Contact: Yes FDA

Precision Handling With Medium Cut Risk in Dry Environment



MaxiFlex Cut



34-8743

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Green nylon, spandex
- Palm Thickness: 0.75 mm
- Length: 24.5 cm
- Sizes: Size 6 (XS) Size 11 (XXL)
- EN 388: 2016: 4331B
- Dexterity Level: 5
- Silicon Free: Yes



34-6743

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Green Dyneema diamond, nylon, spandex
- Palm Thickness: 0.90 mm
- Length: 23 cm
- Sizes: Size 6 (XS) Size 12 (XXXL)
- EN 388: 2016: 4X32B
- Dexterity Level: 5
- Silicon Free: Yes

Precision Handling With Medium Cut Risk in Oily Environment



MaxiCut Oil



34-304



34-305 3/4 Coated

- Design: Seamless knitted gloves
- Coating: Grey nitrile coated, black
 micro-foam nitrile
- Liner: Green Polyester, nylon, spandex
- Palm thickness: 1.30 mm
- Length: 25 cm
- Sizes: Size 6 (XS) Size 11 (XXL)
- EN 388:2016: 4331B
- Dexterity Level: 2
- Silicon Free: Yes
- Technologies: CutTech + LiquiTech + Dura Tech + ErgoTech + GripTech



44-305

- Design: 3/4 coated, Seamless knitted gloves
- Coating: Grey nitrile coated, black micro-foam nitrile
- Liner: Blue Polyester, nylon, spandex
- Palm thickness: 1.10 mm
- Length: 25 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388:2016: 4341B
- EN 407:2004: X1XXXX
- Dexterity Level: 5
- Technologies: CutTech + LiquiTech + Dura Tech + ErgoTech + GripTech

Precision Handling With High Cut Risk in Dry Environment



MaxiCut Ultra



44-3745

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Dark blue nylon, spandex
- Palm Thickness: 1.0 mm
- Length: 24.5 cm
- Sizes: Size 6 (XS) Size 11(XXL)
- EN 388: 2016: 4542C
- Dexterity Level: 5
- Silicon Free: Yes



44-6745

- Design: Palm coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Light blue dyneema diamond, nylon, spandex
- Palm Thickness: 1.10 mm
- Length: 23 cm
- Sizes: Size 6 (XS) Size 11 (XXL)
- EN 388: 2016: 4X43C
- Dextirit Level: 5

Precision Handling With High Cut Risk in Oily Environmet



MaxiCut Oil



34-505

- Design: 3/4 coated, seamless knitted gloves
- Coating: Grey nitrile coated, black micro-foam nitrile
- Liner: Blue polyester, nylon, spandex
- Palm Thickness: 1.60 mm
- Length: 25 cm
- Sizes: Size 6 (XS) Size 11 (XXL)
- EN 388: 2016: 4443C
- Dexterity Level: 2
- Silicon Free: No



44-505

- Design: 3/4 coated, seamless knitted gloves
- Coating: Black micro-foam nitrile
- Liner: Blue polyester, nylon, spandex
- Palm Thickness: 1.30 mm
- Length: 24 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388: 2016: 4442C
- Silicon Free: Yes

Arm Protection For High Cut Risk



MaxiCut Ultra



89-5745

- Design: Uncoated
- Material: UHMWPE/glass fiber/nylon/ polyester/spandex, without coating
- Color: Blue
- Palm Thickness: 1.00 mm
- Length: 45 cm
- Sizes: 7 or 10
- EN 388: 2016: 3442C
- Silicone Free: Yes

Hand Protection Against Chemicals Low Cut Risk Medium Cut



Silicon Free: Yes

Classic Range

MaxiTherm



30-202

MaxiFoam



34-900

Design: 3/4 coated, seamless knitted gloves

- Coating: Grey Micro-Foam
- Liner: Orange acrylic & polyester
- Palm Thickness: 2.50 mm
- Length: 26 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388: 2016: 1241B
- EN 511: 2006: X1X
- EN 407: 2004: X2XXXX
- Dexterity Level: 5
- Silicon Free: No

- Design: Palm coated, seamless knitted gloves
- Coating: Grey Micro-Foam
- Liner: Orange acrylic & polyester
- Palm Thickness: 1.00 mm
- Length: 24 cm
- Sizes: Size 7 (S) Size 11 (XXL)
- EN 388: 2016: 4121A
- Dexterity Level: 5
- Silicon Free: Yes

MaxiLite N



34-958

- Design: Palm coated, seamless knitted gloves
- · Coating: Blue micro-foam nitrile
- Liner: Grey nylon
- Palm Thickness: 0.90 mm
- Length: 24.5 cm
- Sizes: Size 6 (XS) Size 11 (XXL)
- EN 388: 2016: 4121X
- Dexterity Level: 5

Impact Gloves

In 2016, the European hand protection standard, EN 388, released an update that included a standard for hand protection. This was a huge boon for workers as it was the first-ever standard to rate impact protection; however, for all its benefits, it fell short in many areas and left much to be desired in terms of sufficiently protecting the hands of workers.



Our anti-impact gloves feature dense thermo-plastic pads, strategically placed along the back of the hand to provide maximum cushioning while not impeding hand functioning. As our brand.

As Granberg brand promises "Fearless Performance", our gloves gurantee high comfort and safety to keep the workers satisfied and confident while doing their job.

Suitable for:

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



Impact Gloves

Cut Resistant Impact Hi-Viz Protective Gloves



115.9001

- Upperhand material: Spandex
- Liner material: Unlined
- Palmside material: KR Grip, Macroskin Pro
- Grip: Wet, Dry and oily application.
- Produced for extreme working conditions for oil and gas professionals.
- Powerful cut resistant insert in the palm, exceeding EN 388 cut level D.
- Powerful but soft impact protection on back of hand.
- High visibility colors for increased safety.
- Designed for optimal ergonomics.
- Neoprene cuff provides comfort and wrist protection.
- Excellent breathability.
- Machine washable. Drip dry exceptional grip.
- EN 420:2003
- EN 388:2016 4X43DP
 - o Abrasion resistance (1-4): 4
 - o Cutting resistance (1-5): 5
 - o Tearing resistance (1-4): 4
 - o Puncture resistance (1-4): 3
 - o New cut resistant (A-F): D

Cut Resistant Impact Hi-Viz Protective Gloves



115.9007

- Design: Palm coated
- Liner material: Typhoon
- Coating: Nitrile
- Grip: Wet, Dry and oily application.
- 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.
- EN 420:2003
- EN 388:2016 4X43CP
 - o Abrasion resistance (1-4): 4
 - o Cutting resistance (1-5): 5
 - o Tearing resistance (1-4): 4
 - o Puncture resistance (1-4): 3
 - o New cut resistant (A-F): C

Conformity

CE

Category I:

Gloves in this category are intended to protect the user from minimal injuries that might occur during for example washing, dishing but also from hot objects where temperatures are below +50C. Also suitable for less heavy gardening and other work where risk for lighter injuries.

Category II:

This category of gloves is intended to protect the user from injuries that are not classified like minimal or very high. The gloves must be marked with a pictogram showing the gloves protection properties and are tested according to the standard EN388, mechanical protection, at an accredited test institute. All category 2 gloves are validated and type certified by a Notified Body to show the validity of protection.

Category III:

Gloves in this category protects against risks that may cause very serious consequences such as death or irreversible damage to health. The gloves must be marked with pictograms showing the gloves protection properties and must be tested at an accredited test institute. They must also be validated and certified, for both type and production control, by a Notified Body to show the validity of protection. Chemical protection gloves are all category 3 but also heat protection can be classified to this category.

EN 420:2003

General requirements valid for all protective gloves:

- The glove itself shall not be a risk to wear or cause injuries to the user.
- The glove material shall have a pH value between 3.5 and 9.5.
- The Chrome VI level in the glove leather must stay at 2.9 mg/kg or below.
- If the glove contains any substances known to cause allergic reactions, it shall be stated in the product information.
- The glove sizes are standardized according to minimum length.

EN 388:2016

EN 388:2016



ABCDEF

EN 407:2004



123456

EN 511:2006



B: Contact cold (0-4) C: Water impermeability(0-1)

A: Convective cold (0-4)

A: Abrasion Resistance (0-4)

C: Tearing Resistance (0-4) D: Puncture Resistance (0-4)

F: Impact Protection (-/P)

Flammability (0-4)
 Contact heat (0-4)
 Convective heat (0-4)
 Radiant heat (0-4)

B: Cut Resistance (0-5) - Coup Test

E: Cut Resistance (A-F) – TDM Test ISO 13997

5: Small splashes of molten metal (0-4)6: Large quantities of molten metal (0-4)

EN 374: 2003



PROTECTIVE Gloves against dangerous chemical and Micro-Organisms.

Chemicals can cause seriously harm for both the personal health and the environment. Two chemicals, each with known properties, can cause unexpected effects when they are mixed. This standard gives directives of how to test degradation and permeation for 18 chemicals but doesn't reflect the actual duration of protection in the workplace and the differences between mixtures and pure chemicals.

DEGRADATION

The glove material might be negatively affected by chemical contact. Degradation shall be determined according to EN374-4:2013 for each chemical. The degradation result, in percentage (%), shall be reported in the user instruction.

PERMEATION

The chemicals break through the glove material at a molecular level. The breakthrough time is here evaluated and the glove must withstand a breakthrough time of at least:

Type A – 30 minutes (level 2) against minimum 6 test chemicals

- Type B 30 minutes (level 2) against minimum 3 test chemicals
- Type C 10 minutes (level 1) against minimum 1 test chemical

TYPE A



TYPE C



EN ISO 374-1 Type B ABC



The third row in the pictogram for Type A and B indicates which chemicals, in the table below, the glove protects against. Type C doesn't have a third row and withstand 1 chemical only for a short while.

Code Letters	Chemicals	Cas No	Class	
A	Methanol	67-56-1	Primary alcohol	
В	Acetone	67-64-1	Ketone	
С	Acetonirite	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	
Н	Tetrahydrofuran	109.99.9	Heterocyclic & ether compound	
I	Ethyl acetate	141-78-6	Ester	
J	N- heptane	142-82-5	Saturated hydrocarbon	
K	Sodium hydroxide 40%	1310-73-2	Inorganic base	
L	Sulphuric acid 96%	7664.93.9	Inorganic mineral acid, oxidizing	
М	Nitric acid 65%	7697.37.2	Inorganic mineral acid, oxidizing	
N	Acetic acid 99%	64-19-7	Organic acid	
0	Ammonium hydroxide 25%	1336-21-6	Organic base	
Р	Hydrogen peroxide 30%	7722-84-1	Peroxide	
S	Hydrofluric acid 40%	7664-39-3	Inorganic mineral acid	
Т	Formaldehyde 37&	50-00-0	Aldehyde	

The test chemicals are listed in the table above and all 18 chemicals shall be tested for permeation according to EN16523-1:2015.

	General Req.In En 420	Penetration Shall not Leak	Min. Level 2 of 6 Chemicals	Min. Level 2 of 3 Chemical	Min Level 1 of 1 Chemical
Туре А	Х	Х	Х		
Туре В	Х	Х		Х	
Туре С	Х	Х			Х

A summary of the requirements for different protection levels are listed in the table above.



Micro-Organism Hazards

All gloves must be tested against micro-organisms. The gloves are tested to protect against bacteria and fungi, but also viruses if requested, according to EN374-5:2016.

EN 16350:2014



This standard provides additional requirements for protective gloves that are worn in explosive areas. It specifies a test method and requirements for performance, marking and information for electrostatic dissipative protective gloves to minimize explosion risks

Food Contact



Materials that come into contact with food must not contaminate food with hazardous substances. The Regulation 1935/2004/EC governs the requirements for traceability and identification throughout the production chain. The products shall also be marked with the glass/fork symbol. The gloves shall be manufactured in accordance with Commission Regulation (EC) 20023/2006 on Good

Manufacturing Practice (GMP) which imposes requirements on the manufacturer's quality assurance system for articles intended to come into contact with food.Protective gloves with glass/fork symbol meet the above requirements and can be used in contact with food. What kind of food they are adapted for is stated in the user instruction that accompany the glove. Head Office: 17 Zahraa street, Dokki, Giza Tel/Fax: +202 3761 4178

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