

Accelerate your journey to

ZERO WORKPLACE HAND INJURIES

CATALOGUE OF PRODUCTS 2026



Traffi[®]
FOR HANDS. FOR LIFE.[™]



Welcome to Traffi

At Traffi, we're more than glove manufacturers — we're **HAND PROTECTION SPECIALISTS** on a mission to keep hands and our planet safe.

For over 16 years, we've been leading the way in reducing workplace hand injuries and helping teams perform at their peak. We're proud to have pioneered the **TraffiSystem**®, our simple, colour-coded approach that takes the guesswork out of safety and helps accelerate the **THE JOURNEY TO ZERO WORKPLACE HAND INJURIES**.

Everything we do is guided by our vision of a brighter future with zero hand injuries — and by our purpose:

To protect hands, empower people and care for the world we all share.

Our values of being **trusted, pioneering and collaborative** define who we are and how we work. They shape every decision we make — from developing innovative, sustainable products to building strong partnerships that put safety, performance and people first. These values remind us that progress happens when we lead with trust, challenge convention, and work together towards a safer tomorrow.

As you browse this catalogue, you'll discover more than gloves — you'll find solutions designed for peak performance and safety.

Let's protect hands, together.

For Hands. For Life.



Adrian James
CEO & Founder

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The TraffiSystem





BETTER FOR YOUR HANDS. BETTER FOR THE PLANET.

At Traffi, we're focused on reducing hand injuries, cutting waste and costs, and creating more responsible solutions for the hand protection market.

- Treated with our LXI (Life Extending Technology) for **extra longevity** and enhanced resistance to water
- Features a **thumb crotch** to extend the wear life of the glove.
- **Certified washable** - 3 cycles at 40°C and line dry
- **Plant-based antibacterial treatment** for longer freshness
- **OEKO-TEX approved**, keeping your hands free from harmful chemicals
- **Odour and bacteria resistant**, keeping your hands fresher throughout the day

When you choose the LXI range, you're choosing long-lasting, high-performance hand protection - for your people, your business, and the planet.



**OEKO
TEX®**
STANDARD 100
14.HLK.55045
Hohenstein HTTI
www.oeko-tex.com

LXI RANGE LXI®



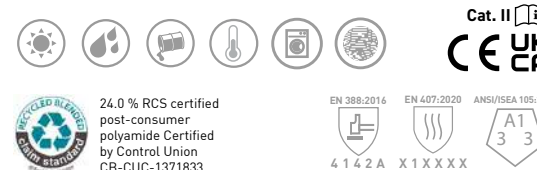
TG1240

Key features

- Cut Level A Safety Glove
- 24% certified recycled content included in the glove

Carbon footprint: 1.3924 kgCO₂e

Standard	EN388:2016: 4142A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Nylon, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	



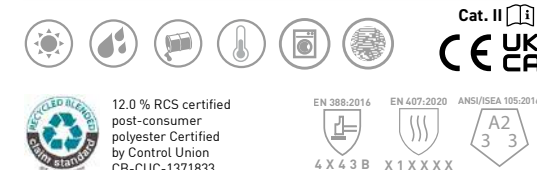
TG3240

Key features

- Cut Level B Safety Glove
- 12% certified recycled content included in the glove

Carbon footprint: 1.3525 kgCO₂e

Standard	EN388:2016: 4X43B	ANSI Cut: A2
	EN407:2020: X1XXXX	
Sizes	6-11	
Liner	Polyester, HPPE, Glass, Nylon, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	



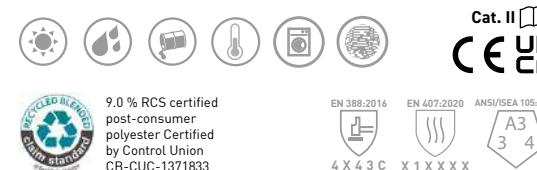
TG5240

Key features

- Cut Level C Safety Glove
- 9% certified recycled content included in the glove

Carbon footprint: 1.3583 kgCO₂e

Standard	EN388:2016: 4X43C	ANSI Cut: A3
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Polyester, HPPE, Glass, Nylon, Steel, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	



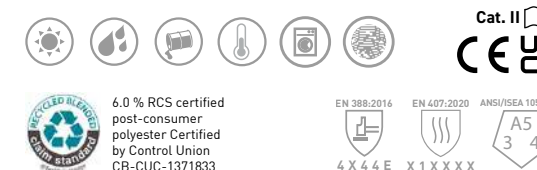
TG6240

Key features

- Cut Level E Safety Glove
- 6% certified recycled content included in the glove

Carbon footprint: 1.4189 kgCO₂e

Standard	EN388:2016: 4X44E	ANSI Cut: A5
	EN407:2020: X1XXXX	
Sizes	5-12	
Liner	Polyester, HPPE, Glass, Nylon, Steel, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	





IMPACT PROTECTION



BETTER FOR YOUR HANDS. BETTER FOR THE PLANET.

At Traffi, we're focused on reducing hand injuries, cutting waste and costs, and creating more responsible solutions for the hand protection market.

- Treated with our LXI (Life Extending Technology) for **extra longevity** and enhanced resistance to water
- Features a **thumb crotch** to extend the wear life of the glove.
- **Plant-based antibacterial treatment** for longer freshness
- **Odour and bacteria resistant**, keeping your hands fresher throughout the day

When you choose the LXI range, you're choosing long-lasting, high-performance hand protection - for your people, your business, and the planet.



TG5545

Key features

- Impact resistant design, which is Level 1 protection.

Carbon footprint: 1.9454 kgCO₂e

Standard	EN388:2016: 4X44EP	ANSI Cut: A5
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Polyester, HPPE, Glass, Nylon, Steel, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	



TG5550

Key features

- Impact resistant design with Level 2 protection.
- Comfort pads are in the palm to help reduce hand fatigue

Standard	EN388:2016: 4X44EP	ANSI Cut: A5
	EN407:2020: X1XXXX	
Sizes	7-12	
Liner	Polyester, HPPE, Glass, Nylon, Steel, Elastane	
Gauge	15gg	
Coating	MicroDex Nitrile	





At Traffi, we're focused on reducing hand injuries, cutting waste and costs, and creating more responsible solutions for the hand protection market.

- Treated with our LXT (Life Extending Technology) for **extra longevity** and enhanced resistance to water
- Part of our sustainable range with calculated and verified carbon footprints
- **Certified washable** - to a minimum of 5 cycles at 40°C and line dry

When you choose the LXT range, you're choosing long-lasting, high-performance hand protection - for your people, your business, and the planet.



TG1360

Key features

- Cut Level A Safety Glove
- 48% recycled content included in the glove

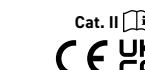
Carbon footprint: 1.1514 kgCO₂e

Standard	EN 388:2016: 4131A	ANSI Cut: A1
Sizes	5-12	
Liner	Nylon, Elastane	
Gauge	18gg	
Coating	X-Dura Polyurethane	



48.0 % RCS certified post-consumer polyamide Certified by Control Union CB-CUC-1371833

EN 388:2016
4 1 3 1 A



ANSI/ISEA 105:2024
A1
X X



TG7360

Key features

- Cut Level F Safety Glove
- 12% recycled content included in the glove

Carbon footprint: 0.8661 kgCO₂e

Standard	EN388:2016: 4X42F	ANSI Cut: A6
Sizes	6-12	
Liner	Nylon, HPPE, Polyester, Glass, Steel, Elastane	
Gauge	18gg	
Coating	X-Dura Polyurethane	



12.0 % RCS certified post-consumer polyester Certified by Control Union CB-CUC-1371833

EN 388:2016
4 X 4 2 F



ANSI/ISEA 105:2024
A6
X X



TG5360

Key features

- Cut Level C Safety Glove
- 12% recycled content included in the glove

Carbon footprint: 0.9663 kgCO₂e

Standard	EN388:2016: 3X42C	ANSI Cut: A3
Sizes	5-12	
Liner	Nylon, HPPE, Polyester, Glass, Steel, Elastane	
Gauge	18gg	
Coating	X-Dura Polyurethane	



12.0 % RCS certified post-consumer polyester Certified by Control Union CB-CUC-1371833

EN 388:2016
3 X 4 2 C



ANSI/ISEA 105:2024
A3
X X



ULTRAFINE FOAM



BETTER FOR YOUR HANDS. BETTER FOR THE PLANET.

At Traffi, our Ultrafine range is engineered to deliver exceptional dexterity, comfort and protection in the lightest, thinnest form possible.

- A **21gg liner**, taking dexterity, tactility, and comfort to a new level
- Features a **thumb crotch** to extend the wear life of the glove
- **Oeko-tex approved**, keeping your hands free from harmful chemicals
- **Odour and bacteria resistant**, keeping your hands fresher throughout the day

When you choose the Ultrafine range, you're choosing long-lasting, high-performance hand protection - for your people, your business, and the planet.

**OEKO
TEX®** STANDARD 100
2012PK0113
AITEK
www.oeko-tex.com



TG6040

Key features

- Cut Level E Safety Glove
- Glass and steel free liner

Standard	EN388:2016: 3X42E ANSI Cut:A5
Sizes	6-12
Liner	UHMWPE, Nylon, Elastane
Gauge	21gg
Coating	Nitrile Microfoam



TG7040

Key features

- Cut Level F Safety Glove
- Glass free

Standard	EN388:2016: 3X42F ANSI Cut: A7
Sizes	6-12
Liner	HPPE, Nylon, Tungsten, Elastane
Gauge	21gg
Coating	Nitrile Microfoam



NITRILE MICROFOAM



NITRILE MICROFOAM



TG1140

Key features

- Fine gauge nylon liner offering outstanding dexterity
- Sanitized ActiFresh treatment, preventing bacteria, odour, and sweat for long-lasting freshness
- MicroDex coating makes it suitable for dry, damp and oily conditions
- Touchscreen compatible

Standard	EN388:2016: 4131A
Sizes	6-11
Liner	Nylon, Elastane
Gauge	15gg
Coating	MicroDex Nitrile



TG3140

Key features

- MicroDex coating provides safe and reliable grip in wet, dry and oily conditions
- Has a reinforced thumb crotch
- Seamless, close fitting and breathable liner offering long lasting comfort

Standard	EN388:2016: 4X43B
Sizes	6-11
Liner	HPPE, Nylon, Elastane
Gauge	13gg
Coating	MicroDex Nitrile



TG5140

Key features

- A highly popular glove, proving very comfortable and long lasting
- MicroDex coating provides safe & reliable grip in wet, dry & oily conditions
- Reinforced thumb crotch for extra protection and longevity

Standard	EN388:2016: 4X44C
Sizes	6-11
Liner	HPPE, Glass, Nylon, Elastane
Gauge	13gg
Coating	MicroDex Nitrile



TG5150

Key features

- Extended knit wrist cuff to protect forearm
- Reinforced thumb crotch for enhanced longevity
- Breathable and comfortable liner, reducing wearer fatigue and perspiration

Standard	EN388:2016: 4X44C
Sizes	7-11
Liner	Nylon, HPPE, Glass, Elastane
Gauge	13gg
Coating	MicroDex Nitrile



POLYURETHANE COATED



TG1010

Key features

- Highly comfortable, breathable liner
- Outstanding dexterity
- Contains 79% GRS-certified pre-consumer recycled polyamide

Standard	EN388:2016: 4131A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	7-12	
Liner	Recycled Polyamide	
Gauge	15gg	
Coating	X-Dura Polyurethane	



TG3010

Key features

- Breathable seamless liner for great comfort
- Palm dipped PU makes it a great general use glove in dry conditions
- Good dry grip and abrasion resistance

Standard	EN388:2016: 4X43B	ANSI Cut: A2
	EN407:2020: X1XXXX	
Sizes	6-11	
Liner	Nylon, HPPE, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG5010

Key features

- Highly cut resistant
- Breathable seamless liner to eliminate perspiration
- Provides excellent grip and abrasion resistance in dry conditions

Standard	EN388:2016: 4X43D	ANSI Cut: A4
Sizes	6-11	
Liner	Nylon, Polyester, HPPE, Steel, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



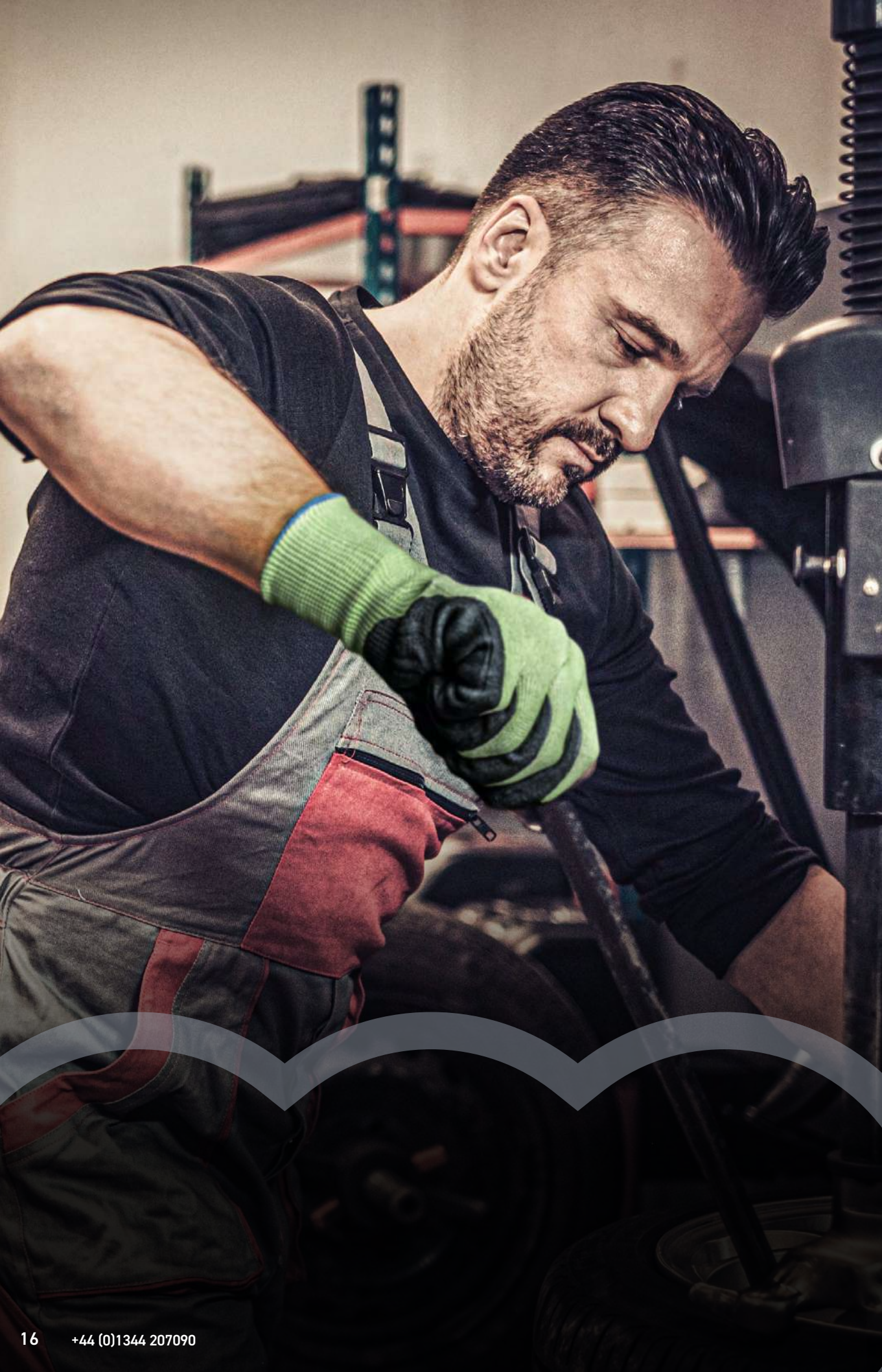
TG6010

Key features

- Highest level of cut protection according to EN388:2016
- Impressive comfort, dexterity and flexibility
- Seamless knitted 15 gauge liner for enhanced breathability
- Touchscreen compatible

Standard	EN388:2016: 4X42F	ANSI Cut: A6
Sizes	7-12	
Liner	Nylon, HPPE, Steel, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	





POLYURETHANE COATED



TG1210

Key features

- Close fitting and breathable PU glove
- Good durability and dry grip
- Lightweight liner

Standard	EN388:2016: 3121X	EN407:2020: X1XXXX
Sizes	6-12	
Liner	Polyester	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG3210

Key features

- Close fitting and breathable PU glove
- Good durability and grip in dry conditions

Standard	EN388:2016: 4X43B	ANSI Cut: A2
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Nylon, HPPE, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG5210

Key features

- Close fitting and breathable PU glove
- Great cut resistance, durability and dry grip

Standard	EN388:2016: 4X43C	ANSI Cut: A3
Sizes	6-12	
Liner	Nylon, Polyester, HPPE, Glass, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG6210

Key features

- Maximum cut resistance offering the highest level of hand protection
- PU palm dip provides superior dry grip

Standard	EN388:2016: 4X42F	ANSI Cut: A6
Sizes	6-12	
Liner	Nylon, Polyester, HPPE, Glass, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



POLYURETHANE COATED



TG1220

Key features

- 3 open fingertips for enhanced dexterity and detail tasks
- Durable X-Dura PU coating
- Lightweight and breathable liner

Standard	EN388:2016: 3X21A	ANSI Cut: A1
Sizes	6-11	
Liner	Nylon	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG3220

Key features

- 3 open fingertips for enhanced dexterity and detail tasks
- Durable X-Dura PU coating
- Lightweight and breathable liner

Standard	EN388:2016: 4X43B	
Sizes	6-11	
Liner	Nylon, HPPE, Elastane	
Gauge	13gg	
Coating	X-Dura Polyurethane	



TG5220

Key features

- Level C cut protection
- 3 open fingertips for enhanced dexterity and detail tasks
- Durable X-Dura PU coating
- Lightweight and breathable liner

Standard	EN388:2016: 4X43C	
Sizes	6-11	
Liner	Nylon, HPPE, Glass, Elastane	
Gauge	10gg	
Coating	X-Dura Polyurethane	



TG3220 'LOVELY TO WEAR, AND SAVED ME A HAND INJURY'

Operative at Amey

WET CONDITIONS



WET CONDITIONS



TG1060

Key features

- Fully coated water resistant glove with added palm dip for enhanced grip
- Generous knit wrist for comfort and to ensure a secure fit and protects hand from dirt and debris
- Excellent abrasion resistance
- Hot contact resistance level 1
- 360 degree coverage up to the wrist

Standard	EN388:2016: 4131A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	7-12	
Liner	Nylon	
Gauge	15gg	
Coating	X-Dura Double Dip Nitrile	



TG6060

Key features

- Full dip water resistant glove with extra nitrile foam palm for enhanced grip in wet and oily conditions
- Glass and steel free
- Generously knit wrist for comfort and to ensure a secure fit and protects hand from dirt and debris
- Excellent abrasion and tear resistance
- 360 degree coverage up to the wrist

Standard	EN388:2016: 4X42F	EN407:2020: X1XXXX
Sizes	7-12	
Liner	UHMWPE, Nylon, Elastane	
Gauge	15gg	
Coating	X-Dura Double Dip Nitrile	



TG3060

Key features

- 360 degree coverage up to the wrist
- Great grip in dry, wet, and oily conditions
- Resistant to hot contact level 1
- Glass and steel free

Standard	EN388:2016: 4X42C	ANSI Cut: A3
	EN407:2020: X1XXXX	
Sizes	7-12	
Liner	UHMWPE, Nylon, Elastane	
Gauge	15gg	
Coating	X-Dura Double Dip Nitrile	



TG6060 'A GREAT GRIP ON THE HANDS, REALLY GOOD GLOVE'

Operative at Amey



WET CONDITIONS



TG1895

- Key features**
- Double dip nitrile and latex blended coating offering enhanced grip
 - Generous knit wrist for comfort and to ensure a secure fit and protects the hand from dirt and debris
 - 15gg knitted liner for increased dexterity

Standard	EN388:2016: 3141A
Sizes	7-11
Liner	Polyester, Elastane
Gauge	15gg
Coating	Latex, Nitrile



TG1850

- Key features**
- Fully coated water resistant glove with added palm dip for enhanced grip
 - Generous knit wrist for comfort and to ensure a secure fit and protects hand from dirt and debris
 - 18 gauge seamless knitted liner for excellent dexterity

Standard	EN388:2016: 2141A EN407:2020: X1XXXX
Sizes	7-12
Liner	Nylon, Elastane
Gauge	18gg
Coating	X-Dura Double Dip Latex



TG5060

- Key features**
- Full dip glove with extra nitrile foam palm for enhanced grip in wet and oily conditions
 - Generous knit wrist for comfort and to ensure a secure fit and protects hand from dirt and debris
 - Excellent abrasion and tear resistance

Standard	EN388:2016: 4X43C
Sizes	7-11
Liner	HPPE, Glass, Nylon, Elastane
Gauge	13gg
Coating	X-Dura Double Dip Nitrile



TG5895

- Key features**
- Double dip nitrile and latex blended coating offering enhanced grip
 - Generous knit wrist for comfort and to ensure a secure fit, as well as protecting
 - 13gg knitted liner for increased dexterity

Standard	EN388:2016: 4X42D
Sizes	7-11
Liner	Polyester, HPPE, Steel, Elastane
Gauge	13gg
Coating	Latex, Nitrile



THERMAL GLOVES



TG5070

Key features

- A single layer thermal glove that delivers dexterity and high levels of wearer comfort
- Brushed acrylic liner to keep hands warm whatever the weather
- Sandy nitrile palm coating for optimum grip

Standard	EN388:2016: 4X42D	ANSI Cut: A4
	EN511:2006: X2X	
Sizes	6 -11	
Liner	Acrylic, HPPE, Glass	
Gauge	10gg Terry	
Coating	Sandy Nitrile	



TG1070

Key features

- An acrylic terry liner provides reliable thermal insulation, offering warmth and comfort in cold working environments.
- The enhanced buffing improves heat retention while maintaining breathability to help reduce moisture buildup inside the glove.
- Palm coated with a soft sandy nitrile finish

Standard	EN388:2016: 4131A
	EN407:2020: X1XXXX EN511:2006: X2X
Sizes	6 -12
Liner	Acrylic
Gauge	10gg Terry
Coating	Sandy Nitrile



TG6070

Key features

- Waterproof thermal glove
- Double layered glove
- Provides cut level D cut resistance
- Touchscreen

Standard	EN388:2016: 4X43D	ANSI Cut: A4
	EN407:2020: X2XXXX EN511:2006: 111	
Sizes	6-11	
Liner	Acrylic, HPPE, Nylon, Steel, Polyester, Elastane	
Coating	MicroDex NBR	



THERMAL GLOVES



TG1072

Key features

- A reliable winter glove ideal for general-purpose use in cold environments such as outdoor handling, maintenance, or warehouse work.
- Features an outer shell and an insulating inner liner that work together to keep hands warm and comfortable in cold conditions.

Standard	EN388:2016: 4232A	EN407:2020: X2XXXX
	EN511:2006: 120	
Sizes	7 -11	
Liner	Nylon & Acrylic	
Gauge	10gg Terry	
Coating	Nitrile Rubber	



TG5570

Key features

- Impressive comfort flexibility
- Seamless knitted multi-layer design
- Great high cut level for outdoor environment
- Water resistant and thermal - perfect for winter weather

Standard	EN388:2016: 4X43F	ANSI Cut: A6
	EN511:2006: X1X	EN407:2020: X2XXXX
Sizes	7 -11	
Liner	Acrylic, HPPE, Steel, Nylon, Elastane	
Gauge	10/15gg	
Coating	X-Dura Latex, Nitrile	



CHEMICAL



BETTER FOR YOUR HANDS. BETTER FOR THE PLANET.

Traffi's chemical range is engineered to deliver exceptional dexterity and protection in the most comfortable form possible.

We have started to include recycled content in our range, with the TG6500 having 10% RCS-certified content in the glove.

Other benefits of the range include:

- Extended cuff length to 35cm
- Oil resistant with increased chemical protection

When you select Traffi, you're choosing long-lasting, high-performance hand protection - for your people, your business, and the planet.

CHEMICAL



TG1500

Key features

- Uses a unique blended compound combining good fit and strength with great permeation protection
- Heat resistant to contact level 1
- Double coated for extended wear life



Standard	EN388:2016: 4132A	EN407:2020: X1XXXX
	ENISO374-1:2016: JKLMNO	ENISO374-5:2016: VIRUS
Sizes	7-12	
Liner	Nylon & Elastane	
Gauge	15gg	
Coating	X-Dura Double Dip Nitrile	



TG6500

Key features

- 10% certified recycled content
- Sanitized ActiFresh, preventing bacteria, odour, and sweat for long-lasting freshness
- Cut resistance through entire cuff length



Standard	EN388:2016: 4X42D	EN407:2020: X1XXXX
	ENISO374-1:2016: AJKLMNOPST	ENISO374-5: VIRUS
Sizes	7-12	
Liner	UHMWPE, Polyester, Nylon, Elastane	
Gauge	15gg	
Coating	X-Dura Double Dip Nitrile	



10.0 % RCS certified post-consumer polyester. Certified by Control Union CB-CUC-1371833



CRINKLE LATEX COATED



TG1050

Key features

- This liner has recycled content for ultimate user comfort and reducing its environmental impact
- Made with 41.0% RCS-certified pre-consumer recycled polyamide
- Coating for great grip in dry and wet environments

Standard	EN388:2016: 3131A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	6-11	
Liner	Recycled Polyamide	
Gauge	15gg	
Coating	Crinkle Latex	



TG6250

Key features

- Treated with our Life Extending Technology for extra longevity and enhanced resistance to water.
- Certified washable up to 40°C for 5 wash cycles.
- 5% certified recycled content included in the glove

Standard	EN388:2016: 3X43E	ANSI Cut: A5
	EN407:2020: X1XXXX	
Sizes	6-11	
Liner	Polyester, HPPE, Glass, Nylon, Steel, Elastane	
Gauge	15gg	
Coating	Crinkle Latex	



TG1655

Key features

- Crinkle latex coating ensuring rugged and durable grip
- High tear resistance
- Flexible and comfortable

Standard	EN388:2016: 2142A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Polyester	
Gauge	10gg	
Coating	Crinkle Latex	



TG1050 'GREAT LONGEVITY AND DRIES QUICKLY IN WET CONDITIONS'

OTHER COATINGS



OTHER COATINGS



TG1170

Key features

- Breathable, high comfort liner with added elastane for a close 'second skin' fit
- Palm dipped flat nitrile coating for unrivalled grip in dry conditions
- Made with 51% GRS-certified pre-consumer recycled polyamide

Standard	EN388:2016: 4121A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	6-11	
Liner	Recycled Polyamide	
Gauge	15gg	
Coating	Flat Nitrile	



TG1290

Key features

- EN388:2016 cut level A safety glove
- Super lightweight
- Highly tactile, touchscreen compatible
- This glove is ESD tested in accordance with EN16350.
- High performance liner, dirt & abrasion resistant

Standard	EN388:2016: 4121A	ANSI Cut: A1
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Polyester, Carbon Fibre, Nylon, Elastane	
Gauge	18gg	
Coating	X-Dura PU	



TG5180

Key features

- Grainy finish neoprene coating for improved grip
- Arc flash level 2 with rating of 9.5cal/cm2
- Excellent oil and grease resistance
- Highly durable

Standard	EN388:2016: 3X42D	ANSI Cut: A4
	EN407:2020: 4121XX	
Sizes	7-11	
Liner	Aramid, Glass, Modacrylic, Elastane	
Gauge	13gg	
Coating	Neoprene/Polychloroprene	



LEATHER



LEATHER



TG5595

Key features

- Crafted from premium quality goat leather, this glove offers exceptional durability, and a soft touch
- Comfort pads are strategically placed in the palm for extra comfort
- Comfort pads are strategically placed in the palm for extra comfort
- Cut level C only in the palm

Standard	EN388: 3543C	EN407:2020: 4121XX
	EN511:2006: 11X	
Sizes	6-12	
Liner	Leather, Polyester, Aramid	
Coating	Leather	



Cat. II
CE UK CA



TG5580

Key features

- Digital embossed palm grip, finger, and thumb section
- Embossed grip for abrasion, and thorn resistance
- Extended cuff & wrist guard for increased protection
- Oil & Water block treatment creating a water resistant glove for all weathers
- Arc Rating 35 cal/cm2 as per ASTM F2675/2675M-23

Standard	EN388:2016: 3X33D	EN511:2006: X1X
	EN407:2020: 4132XX	
Sizes	8-13	
Liner	Aramid, Glass	
Coating	Leather	



Cat. III
CE UK CA



TG5660

Key features

- Premium quality goat leather in palm offers durability and a good grip. It molds to the hand over time, providing a custom fit
- Has been designed for rescue and roping applications
- Inner backing with high strength densely knitted aramid fabric to enhanced durability and resistance to wear and tear

Standard	EN388:2016: 3X43D	ANSI Cut: A4
	EN407:2020: X1XXXX	
Sizes	6-12	
Liner	Leather, Polyester, Aramid	
Coating	Polyester, Leather	



Cat. II
CE UK CA



TG5595 'HAVE BEEN USING FOR 3 MONTHS AND STILL GOING STRONG'

Operative at Cranleigh

WELDING RANGE

The welding range is new to Traffi, and has been getting great customer feedback so far. Some customers are reporting that these gloves are lasting up to 8 weeks of intensive use!

Other reasons to love these gloves include:

- An extensive size range of 5-13 (XXS-XXXXL)
- Leather is sourced from LWG Gold Rated tanneries
- The range is OEKO-TEX certified

This range offers great protection from heat, cuts, and abrasions, and this is combined with a long cuff to ensure better protection for the user.



TG1180

- Key features**
- Premium quality leather used
 - Cut Level 1 TIG welding glove
 - Ergonomic glove design supports a natural range of motion

Standard	EN388:2016: 2122X	EN12477:2001 Type B
	EN407:2020: 41214X	
Sizes	5-13	
Liner	Leather	



EN 12477:2001 Type B



TG4080

- Key features**
- Provides cut level E resistance
 - Is a MIG welding glove

Standard	EN388:2016: 3X33E	EN12477:2001 Type A
	EN407:2020: 423344	
Sizes	5-13	
Liner	Leather, Cotton, Aramid	



EN 12477:2001 Type A



TG2080

- Key features**
- MIG welding glove
 - Provides cut level B protection

Standard	EN388:2016: 3233B	EN12477:2001 Type A
	EN407:2020: 41214X	
Sizes	5-13	
Liner	Leather, Cotton	



EN 12477:2001 Type A



TG2080 'VERY COMFORTABLE WHILE WELDING AND PROTECTING MY HANDS NICELY'

SLEEVES & LINERS



SLEEVES & LINERS



TG105

- Key features**
- Flexible and very comfortable
 - Excellent dexterity
 - Close fitting
 - One size fits all

Standard	N/A
Sizes	One size
Liner	Polyester
Gauge	15gg
Coating	N/A



TG210

- Key features**
- High dexterity
 - Excellent comfort and handfeel
 - Silicone free
 - Breathable

Standard	EN388:2016: 3X4XB
Sizes	6-11
Liner	HPPE, Elastane
Gauge	15gg
Coating	Uncoated



TG110

- Key features**
- Natural comfort with ultra-soft Micro Modal yarn, provides a silky feel, gentle on sensitive skin and prevents irritation.
 - Designed for use underneath high-performance gloves, this glove provides a comfortable, skin-friendly layer for users prone to skin sensitivities.

Standard	N/A
Sizes	7-10
Liner	Micro Modal
Gauge	15gg
Coating	N/A



TGSL1

- Key features**
- 15gg ultra lightweight level D sleeve
 - 18 extra inches of seamless cut protection
 - Ambidextrous, with a thumb hole
 - Elasticated bicep cuff to keep the sleeve in place

Standard	EN388:2016: 1X4XD
Sizes	One size
Liner	Nylon, Polyester, HPPE, Steel, Glass, Elastane
Gauge	15gg
Coating	N/A



FOOD RANGE



TG700 SERIES

At Traffi, our TG700 Series is engineered to deliver exceptional dexterity, comfort and protection in the lightest, thinnest form possible, making these gloves ideal for the knife-hand in butchery, food preparation, and food processing.

- Ultrafine yarn technology provides **superb dexterity**
- **Colour coded extended cuff**, allowing for batch identification
- Industrial laundering compliant to ISO 15797:2017, maintaining performance for **50 wash cycles**
- **Ambidextrous**
- Treated with **permanent anti-microbial finish**

When you choose the TG700 Series, you're choosing long-lasting, high-performance hand protection for lightweight applications.



TG720

Key features

- Cut Level F Safety Liner
- Green colour coded extended cuff for batch identification

Standard	EN388:2016: 2X31F	ANSI Cut: A5
Sizes	7-10	
Liner	UHMWPE, Nylon, Silver, Steel, Polyester, Elastane, Polypropylene	
Gauge	18gg	
Coating	Uncoated	



TG725

Key features

- Cut Level F Safety Liner
- Black colour coded extended cuff for batch identification

Standard	EN388:2016: 2X31F	ANSI Cut: A5
Sizes	7-10	
Liner	UHMWPE, Nylon, Silver, Steel, Polyester, Elastane, Polypropylene	
Gauge	18gg	
Coating	Uncoated	



DISPOSABLE GLOVES



DISPOSABLE GLOVES

TD01 SUSTAIN

The TD01 is part of Traffi's sustainable disposable glove range. It's made from 100% premium quality nitrile with a 3.5g high stretch construction. It's powder free, food approved and has a textured finish for improved grip. It's also biodegradable, meaning you can dispose of uncontaminated gloves in the general waste stream with minimal planetary impact, and biodegrades by 76.5% in 539 days!

Key features

- Manufactured from 100% Nitrile
- Biodegradable nitrile glove
- Premium Quality 3.5g High stretch material
- Powder Free
- Textured finish for improved grip
- Food approved

Standard	EN 374-1, 2, 4 & 5, EN455 Part 1, 2 & 3
	Food approved – EN1186 / Regulation EU 10/2011
Sizes	XS-XXL
Ideal For	Healthcare, Construction & Utility, Automotive
	Food Manufacturing & Preparation,
	Janitorial & Cleaning, Facilities Maintenance
 Dry  Wet  Chemical  Food Approved  Latex Free	
 UKCA  CE  Cat. III  EN ISO 374-1:2016/TYPE B  EN ISO 374-5:2016	
 K O T  VIRUS	



**BIODEGRADES
BY 76.5%
IN 539 DAYS**



TD04 SUSTAIN

Traffi's first biodegradable nitrile disposable glove, offering 78.8% Biodegradation in 986 days according to ASTM D5511. High stretch levels and excellent dexterity gives superior comfort for the wearer. Very close fitting which allows for intricate tasks and assembly of small parts. The textured glove surface vastly increases the grip and allows for greater control when handling small objects.

Key features

- High stretch levels and excellent dexterity gives superior comfort for the wearer
- Very close fitting which allows for intricate tasks and assembly of small parts
- 6g Biodegradable disposable

Standard	EN 374-1, 2, 4 & 5, EN455 Part 1, 2 & 3, ASTM D5511
	Food approved – EN1186 / Regulation EU 10/2011
	Compliant with FDA 21 CFR sections 177.2600
Sizes	S-XXL
Ideal For	Construction & Utility, General Industry
	Food Manufacturing & Preparation
	Janitorial & Cleaning, Facilities Maintenance
 Dry  Wet  Chemical  Food Approved  Latex Free	
 UKCA  CE  Cat. III  EN ISO 374-1:2016/TYPE B  EN ISO 374-5:2016	
 K P T  VIRUS	



**BIODEGRADES
BY 78.8%
IN 986 DAYS**



X-DURA DISPOSABLES



TD05 XDURA BLACK NITRILE DISPOSABLE GLOVE 6.5g

Key features

- Virus resistant to EN ISO 374-5
- Diamond textured surface to increase grip and air circulation
- Food approved - Compliant with FDA 21 CFR sections 177.2600
- Resistant to chemicals J.K.P.T to Category III type B with the Regulation on personal protective equipment (EU) 2016/425

Size: S - XXL Colour: Black

AQL: 1.5



EN ISO 374-1:
2016/TYP B



EN ISO 374-5:
2016



TD06 XDURA BLUE NITRILE DISPOSABLE GLOVE 6.5g

Key features

- Virus resistant to EN ISO 374-5
- Diamond textured surface to increase grip and air circulation
- Food approved - Compliant with FDA 21 CFR sections 177.2600
- Resistant to chemicals J.K.P.T to Category III type B with the Regulation on personal protective equipment (EU) 2016/425

Size: S - XXL Colour: Blue

AQL: 1.5



EN ISO 374-1:
2016/TYP B



EN ISO 374-5:
2016



TD07 XDURA ORANGE NITRILE DISPOSABLE GLOVE 8.6g

Key features

- Diamond texture and thicker glove providing excellent grip and strength.
- Food approved - Compliant with FDA 21 CFR sections 177.2600
- Chemical Resistant J. K. P. T
- Hydrocarbon resistant (resistant to n-Heptane for 2 hrs/ 36.8% degradation)
- Compliant to EN ISO 374-5 providing protection from Bacteria, Fungi & viruses.
- Unique orange colour to increase visibility

Size: S - XXL Colour: Orange

AQL: 1.5



EN ISO 374-1:
2016/TYP B



EN ISO 374-5:
2016



SUSTAINABILITY

It's in our hands

Responsible with
PRODUCTS

Responsible in
PARTNERSHIPS

Responsible for
PEOPLE

Our sustainability development goals



SUSTAINABLE DEVELOPMENT GOALS



REDUCING SINGLE USE PLASTIC WITHIN PACKAGING

As part of our sustainability journey, we are on a mission to remove all plastic. 95% of products have plastic free packaging, with the remaining 5% having at least 30% recycled content!

Our sustainability journey is an infinite one as we seek to continually better ourselves. It's been more than 6 years now since we started removing Single Use Plastic from our glove packaging and we still continue to improve on this. 2024-2025 has so far seen further progress on the plastic crackdown within Traffi, with the avoidance of plastic free packaging on the new TG5545, with each individual pair is now attached by a sustainable header card. Our Sustain Disposables are seeing a change in the form of a new box material for the TD01, which is now made from FSC certified recycled pulp & 100% recyclable material.



WE'RE HERE TO HELP YOU ACHIEVE YOUR SUSTAINABILITY GOALS AND OBJECTIVES.

Follow our sustainability timeline over the last few years to see how we have achieved our goals.



UNDERSTANDING COATINGS

Each coating technology in the Traffi product range is designed to deliver a great combination of grip, durability, and comfort, for protection against hazards encountered in the working environment. Here is a brief overview of our different product coatings and detail on where and how they perform.

SANDY NITRILE

This coating has a coarse, sand-like surface, and is ideal for heavy duty environments thanks to its strength.

Ideal for:

- High-wear environments
- Dry, wet, and oily conditions

MICRODEX NITRILE

This coating is a next-generation variant of the standard foam nitrile coating, which features a sponge-like surface which allows the coating to effectively displace moisture.

Ideal for:

- Outstanding grip in dry, wet, and oily environments
- Greater control and longer-term durability than a standard foam nitrile coating.

X-DURA PU

This coating is a very thin and flexible coating, which makes it ideal for precision handling and more technical applications.

Ideal for:

- Great grip in dry conditions
- Applications where fingertip sensitivity is needed

X-DURA FLAT NITRILE

This is a highly durable coating, and has great oil and chemical resistance. It's smooth appearance provides incredible grip in dry conditions and moderate grip in wet conditions.

Ideal for:

- Highly abrasive environments
- High-precision handling situations
- Grip in dry conditions

FOAM NITRILE

This coating features a sponge-like surface which allows the coating to displace moisture effectively, giving great grip across dry, wet, and oily conditions.

Ideal for:

- Grip in multiple environments

X-DURA LATEX

This coating is a textured 'crinkle' grip and is made from latex, a natural material. The coating provides exceptional grip in wet and dry conditions, and has a strong resistance to tearing and abrasion.

Ideal for:

- Handling abrasive materials
- Grip in dry conditions

BLENDED COATINGS

Using our expertise in coating blending and polymerisation we take the unique properties of our leading X-Dura coatings, blending them together, to give unique performance characteristics combining the best properties of each coatings type.



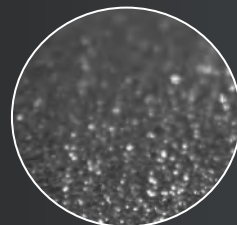
FOAM NITRILE



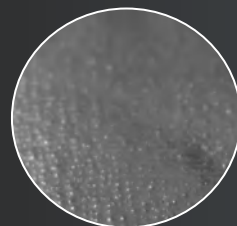
SANDY NITRILE



MICRODEX NITRILE



X-DURA NITRILE



X-DURA PU



X-DURA LATEX



OUR ACCREDITATIONS



Sustainability Accomplishments

SBTi: Science Based Target initiatives are paramount in making sustainability a genuine target. Data and statistics turn broad commitments into measurable, tangible objectives and change.

Ecovadis: This is an independent organisation which assesses companies' sustainability based on the factors of Environment, Ethics, Labour & Human Rights, and Sustainable Procurement. Our silver medal signifies that we are in the top 15% of all companies assessed by Ecovadis, across all industries – of course, we're eyeing the platinum award in the near future.

Memberships

BSIF: The British Safety Industry Federation mark means that Traffi are independently audited and verified to provide genuine, correctly tested, and certified safety products.

SATRA Technology: SATRA are a leading research and testing organisation for safety, performance, and regulatory compliance. Traffi's membership to SATRA grants us access to an array of resources which aid in the continuous development of our range, ensuring we stay at the forefront of safety and technology.

Sedex: Supplier Ethical Data Exchange membership shows Traffi's commitment to improving ethical business practices throughout the supply chain. We believe in transparency and accountability at all levels to ensure that our customers and end users know where and who their hand protection comes from.

Accreditations and Certifications

ANSI: With Traffi gloves becoming available in more and more markets globally, it makes sense to strive for accreditations which users and purchasers

will understand in other countries. The American Nation Standards Institute provides a different but comparable set of tests to Europe's EN standards, so ANSI categorisation helps us to translate the TraffiSystem to North American consumers.

Living Wage: We pay all employees a real living wage, as independently confirmed by the Living Wage Foundation. We offer value to customers and believe that this should be reflected in the value we give our people – a fair day's work deserves a fair day's pay.

ISO 9001, 14001 & 45001: As a company, Traffi adheres to ISO standards for quality management (ISO 9001), environmental management (ISO 14001), and occupational health and safety (ISO 45001). These accreditations reflect our commitment to delivering excellence, sustainability, and a safe working environment.

ISO 14067 Verified Product Carbon Footprint (PCF): We take carbon accountability seriously. Our products have been independently verified under ISO 14067, ensuring our carbon footprint calculations are accurate and transparent.

Cyber Essentials: Cybersecurity is an integral part of modern business. Traffi is certified under the Cyber Essentials scheme, ensuring that we protect sensitive data and maintain robust digital security measures.

Oeko-Tex certification: Guarantees that our products are free from harmful substances, ensuring safety for users and respect for the environment.

Leather for our welding range: Is sourced from LWG Gold Rated tanneries, ensuring the highest standards of sustainable and responsible leather production.



PRODUCT APPLICATION KEY





EU PPE REGULATION (EU) 2016/425

All Personal Protective Equipment (PPE) placed on the EU market must comply with Regulation (EU) 2016/425. The regulation establishes requirements and responsibilities for manufacturers, authorized representatives, importers, and distributors to ensure product safety and traceability.

The regulation classifies PPE into three categories based on risk level:

CATEGORY I - SIMPLE PPE (LOW RISK)

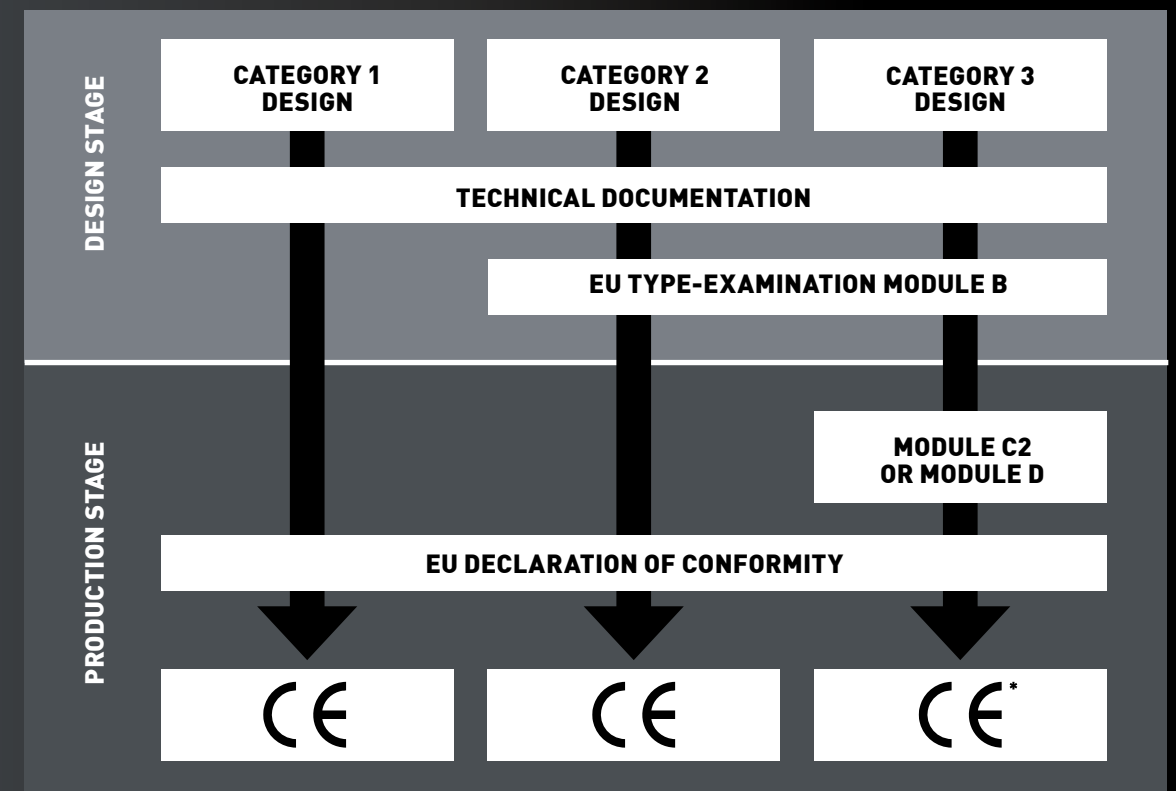
Designed to protect against minimal risks where the user can identify and avoid hazards in time.

CATEGORY II - INTERMEDIATE PPE (MEDIUM RISK)

Covers risks other than those listed under Categories I or III. Products require EU Type-Examination by a Notified Body.

CATEGORY III - COMPLEX PPE (HIGH/IRREVERSIBLE RISK)

Protects against life-threatening or irreversible health hazards where the user cannot detect danger in time. Requires Notified Body involvement for both EU Type-Examination and ongoing production surveillance (Module C2 or D).



MODULE B – EU TYPE EXAMINATION

Assessment of the product design and performance before placing the PPE on the market.

Ongoing Production Surveillance — Manufacturer may choose either:

- **MODULE C2 – PRODUCT MONITORING**
Periodic sampling of finished PPE by the Notified Body to verify continued compliance.
- **MODULE D – QUALITY SYSTEM MONITORING**
Periodic audit of the manufacturer's production and quality system to ensure consistent manufacture of compliant PPE.

*Notified body number which is responsible for the ongoing conformity should be followed the CE mark.

EN ISO 21420:2020

PROTECTIVE GLOVES – GENERAL REQUIREMENTS AND TEST METHODS



This EN ISO 21420:2020 specifies the general requirements and relevant test procedures for glove design and construction, innocuousness, comfort and efficiency, as well as the marking and information supplied by the manufacturer applicable to all protective gloves.

The standard sets out essential requirements relating to the design and construction of the glove, chemical innocuousness, comfort and functional performance, including sizing and dexterity, as well as the information to be supplied by the manufacturer.

CHEMICAL INNOCUOUSNESS:

Chemical innocuousness ensures that the glove materials do not pose a risk to the wearer's health through skin contact. All components of the glove, including textiles, leather, coatings, plastics, rubber and metallic parts – must comply with strict limits for harmful substances.

- pH – required on each individual material: between 3.5 and 9.5
- Chromium VI – each individual leather: ≤ 3 mg/kg (3 ppm)
- Azo colourants – applicable to all dyed textiles and leather: ≤ 30 mg/kg for each listed aromatic amine
- PAH – applicable to rubbers and plastics in skin contact: ≤ 1 mg/kg for each of the eight restricted PAHs
- Nickel release – metallic materials in skin contact (REACH): ≤ 0.5 $\mu\text{g}/\text{cm}^2$ per week
- PCP – applicable to natural materials: not detectable
- DMFa – applicable to gloves containing PU: ≤ 1000 mg/kg (0.1% w/w)

ADDITIONAL NOTES:

- The standard also requires compliance with restricted-substance legislation (e.g., REACH Regulation (EC) 1907/2006) and may require tests for electrostatic discharge properties (in zones with explosive atmospheres) via referenced standards.
- For cleaning/care: if a glove includes care/cleaning instructions, the performance must be tested both before and after the maximum recommended cleaning cycles.
- The electrostatic properties must be tested in accordance with EN 16350, For ATEX zones: pictogram to be marked on the gloves.

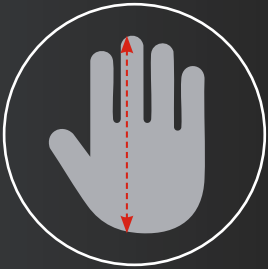


SIZING & DEXTERITY

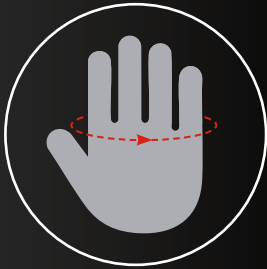
No more minimum glove lengths requirement in revised standards except if a minimum length is required by the specific use standard (welders and fire fighters). We use our own hand sizing system, and in this case, hand circumference and hand length by size shall be detailed in the user instructions and the technical file.

Sizes are mapped based on hand circumference (mm) and hand length (mm) from wrist to tip of middle.

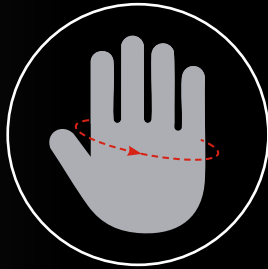
EU Size	Label	Hand Circumference (mm)	Hand Length (mm)
4	3XS	101	≤ 160
5	2XS	127	≤ 160
6	XS	152	160
7	S	178	171
8	M	203	182
9	L	229	192
10	XL	254	204
11	2XL	279	215
12	3XL	304	≥ 215
13	4XL	329	≥ 215



HAND LENGTH



HAND CIRCUMFERENCE



MEASURE HERE

DEXTERITY

Dexterity is assessed by ability to pick up small pins

Dexterity Level	Smallest Pin Diameter Picked (mm)
Level 1	11.0 mm
Level 2	9.5 mm
Level 3	8.0 mm
Level 4	6.5 mm
Level 5	5.0 mm

The level is graded by the diameter of the smallest pin that the user is able to pick up off a flat surface three times in 30 seconds, when wearing correct sized gloves. Overall, four gloves are used in this test.

GLOVE MARKING

Each protective glove must be marked with at least the following information:

1. Manufacturer's name, trademark or other identification.
2. Glove designation (e.g., trade name or part number) so the user can clearly identify the product.
3. Size designation of the glove.
4. If relevant, pictograms and references to applicable standards for which the glove complies, together with the performance levels for those standards (in the fixed sequence defined in each standard) along with the CE mark.
5. Warnings, allergies, care instructions, shelf life and storage conditions (User instruction)
6. The marking must be visible, legible and indelible for the life of the glove.

EN 388:2016 + A1:2018

PROTECTIVE GLOVES FOR MECHANICAL RISKS

EN388:2016+A1:2018 is the European safety standards for protective gloves against mechanical risk and key accreditation to help in making selection of right glove for mechanical risk.

Standards enable users to better match the protection required against the hazards present in work environment. Safety gloves classified with performance level against each individual mechanical hazards, relevant value mark at the bottom of EN388:2016 pictogram, the higher the number or ascending letter, the greater the level of protection.

ABRASION RESISTANCE:

Test samples from the palm are rubbed against 180-grit abrasive paper under constant load using an abrasion tester. The protection level is determined by the number of cycles required to wear through the material, with a higher cycle count indicates higher abrasion resistance.

CUT RESISTANCE – COUPE METHOD

A rotating circular blade cuts the sample taken from the palm at constant speed and load. Results are expressed as an index (Levels 1–5), where higher levels indicate greater resistance to cut by a moving blade.

TEAR RESISTANCE:

A sample from the palm is pulled apart on a tensile testing machine. The force required to propagate the tear determines the performance level (Levels 1–4), with Level 4 indicating the strongest material.

PUNCTURE RESISTANCE:

A sample from the palm is pulled apart on a tensile testing machine. The force required to propagate the tear determines the performance level (Levels 1–4), with Level 4 indicating the strongest material.

CUT RESISTANCE – EN ISO 13997 (TDM BLADE TEST)

For safety gloves that are created with materials designed to have a blunting effect on blades, additional cut protection tests must be carried out. Any sample fabric testing used for cut resistance using the ‘Coupe Blade Cut Test’ which blunts the blade, will be marked with an X and tested using the EN ISO test. This is to ensure the degree of protection provided by the glove is as accurate as possible. A straight blade cuts the sample at constant speed while force is gradually increased until breakthrough at 20mm cut length. The required force (in Newtons) determines the protection rating A–F, where F denotes the highest cut resistance.

IMPACT PROTECTION (EN 13594)

A 2.5 kg striker is dropped to generate 5 J impact energy on the back-of-hand area. The transmitted force is measured by a sensor. To pass, mean transmitted force must be ≤ 7 kN and no single result may exceed 9 kN. Passing gloves are marked with “P”.

Clause	Performance Level					
	1	2	3	4	5	
6.1 Abrasion Resistance (Cycles)	≥100	≥500	≥2000	≥2000	≥2000	
6.2 Coupe Cut Resistance (Index)	→1.2	→2.5	→5	→10	→20	
6.4 Tear Resistance (N)	≥10	≥25	≥50	≥75	-	
6.5 Puncture Resistance (N)	≥20	≥60	≥100	≥150	-	
6.3 Cut Resistance TDM						
Level	A	B	C	D	E	F
Newton	→2	→5	→10	→15	→22	→30



EN 407:2020

PROTECTIVE GLOVES AGAINST THERMAL RISKS

This standard defines performance requirements and test methods for gloves and arm protection designed to protect against thermal hazards including flame, contact heat, convective heat, radiant heat, small splashes of molten metal, and large quantities of molten metal. The standard applies to industrial, professional, and domestic applications.

Products claiming protection against limited flame spread (minimum Level 1) are marked with the flame icon on the left. Products claiming contact heat protection only without flame resistance use an alternative icon.



LIMITED FLAME SPREAD

Evaluates a glove's resistance to ignition and burning. The glove is held vertically with the flame applied to the fingertip for a set duration. After-flame and after-glow times are measured. A metal rod is inserted inside the glove to more precisely assess material shrinkage.

CONTACT HEAT

Assesses thermal transmission when touching hot surfaces. A heated metal cylinder is applied to the outer surface of the glove sample while a calorimeter is placed underneath to record temperature rise. The time taken to reach a defined temperature threshold determines the performance level.

CONVECTIVE HEAT

Measures heat transfer through hot gases (e.g., burning air mixtures) across glove materials. Multilayer palm samples are exposed to a combustion source, and the heat transfer index is determined using calorimetric measurement.

RADIANT HEAT

Determines heat transfer from radiant sources. Back-of-glove specimens are exposed to a defined level of radiant heat (expressed in W/m²). The time for temperature increases of 12°C and 24°C at the calorimeter are recorded to classify performance.

SMALL SPLASHES OF MOLTEN METAL

Evaluates protection against incidental molten metal droplets. Small, calibrated droplets (0.5 g) are released onto the glove sample while calorimetric rise is monitored. The performance level is based on the number of drops required to produce a 40°C temperature increase.

LARGE QUANTITIES OF MOLTEN METAL

Assesses protection against heavy molten metal exposure. Samples from the back and cuff are positioned at an angle and exposed to defined volumes of molten iron (with optional alternate metals). A thermoplastic PVC sensor film is placed under the sample. Any signs of penetration, adhesion, or film damage determine the rating.

Clause	UoM	Performance Level			
		1	2	3	4
4.5.2 Limited Flame Spread	After flame-seconds	≤ 15	≤ 10	≤ 3	≤ 2
4.5.2 Limited Flame Spread	After glow-seconds	Infinity	≤ 120	≤ 25	≤ 5
4.5.3 Contact Heat	Threshold ≥15 °C	100	250	350	500
4.5.4 Convective Heat	Seconds	≥4	≥7	≥10	≥18
4.5.5 Radiant Heat (Seconds)	Seconds	≥7	≥20	≥50	≥95
4.5.6 Small Splashes of Molten Metal	0.5 Grams Droplet	≥10	≥15	≥25	≥35
4.5.7 Large Quantities of Molten Metal	Molten Iron Grams	30	60	120	200

EN 511:2006

PROTECTIVE GLOVES AGAINST COLD

EN 511:2006 specifies performance requirements and test methods for gloves intended to protect the hands against convective cold, contact cold, and water penetration in cold environments.

To claim EN 511:2006 performance, gloves must also achieve at least Level 1 in abrasion and tear resistance under EN 388.

CONVECTIVE COLD (RESISTANCE TO HEAT LOSS BY AIR FLOW)

Assesses the glove's integrated thermal resistance (ITR) when exposed to cold circulating air. A heated hand model is placed inside the glove and exposed to moving cold air in a controlled chamber. The electrical power required to maintain skin-temperature equilibrium is measured.

Lower power consumption = higher thermal insulation and better performance.

CONTACT COLD (RESISTANCE TO HEAT LOSS BY DIRECT CONTACT)

Determines the glove's thermal resistance (R-value) when in direct contact with a cold surface. Glove material is positioned between a hot and a cold plate, and the rate of temperature drop through the specimen indicates insulation performance.

Higher R-value indicates better protection against handling cold objects.

WATER PERMEABILITY (WATER PENETRATION)

Evaluates resistance to water ingress. The glove is immersed in water for 30 minutes:

• 0 = Water penetrates within 30 minutes (fail) 1 = No penetration within 30 minutes (pass)

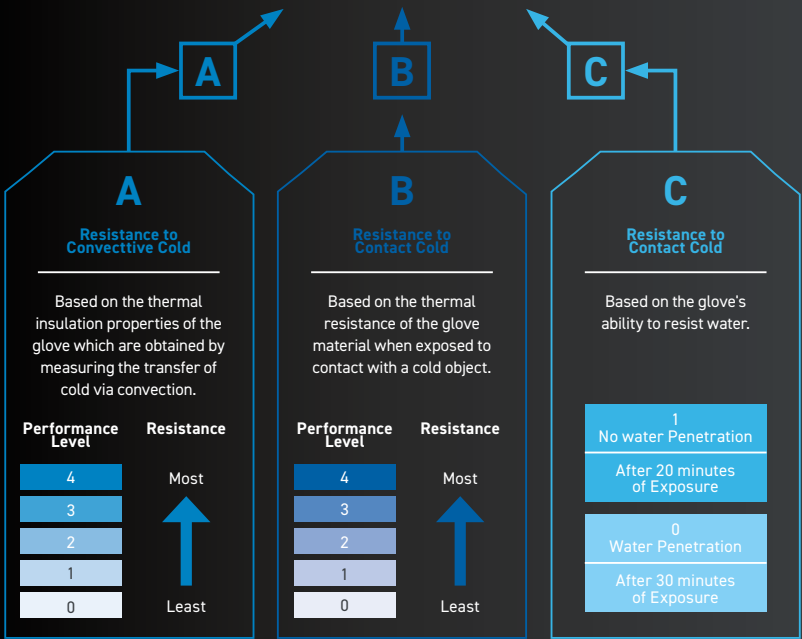
EN 511:2006- Protective Gloves Against Cold

Clause	UoM	Performance Level			
		1	2	3	4
4.3 Water Penetration	--	0 – Water permeation after 30 minutes of exposure 1– No water permeation after 30 minutes of exposure			
4.5 Convective cold	Thermal insulation I_{TR} in $m^2 \text{ K/W}$	$0,10 \leq I_{TR} < 0,15$	$0,15 \leq I_{TR} < 0,22$	$0,22 \leq I_{TR} < 0,30$	$0,30 \leq I_{TR}$
4.6 Contact cold	Thermal resistance R in $m^2 \text{ K/W}$	$0,025 \leq R < 0,050$	$0,050 \leq R < 0,100$	$0,100 \leq R < 0,150$	$0,150 \leq R$



EN 511:2006 applies to any gloves that protect the hands against convective and contact cold down to -50 °C.

EN 511:2006 protection against cold is expressed by a pictogram followed by three performance levels relating to specific protective attributes.



EN ISO 374

SERIES OF STANDARDS – PROTECTIVE GLOVES AGAINST DANGEROUS CHEMICALS AND MICRO-ORGANISMS

EN ISO 374 standard series defines the requirements and test methods for protective gloves intended for use with hazardous chemicals and biological agents. Chemical exposure poses serious health risks, therefore correct glove selection in accordance with this standard series is critical for chemical handling applications. The standard ensures consistency in testing and provides a reliable framework for safety professionals to determine suitable protection levels.

EN ISO 374 standard series requires evaluation of the following:

PENETRATION:

Penetration refers to the passage of chemicals or micro-organisms through seams, pinholes or material defects. Gloves are subjected to air and water leak tests to ensure they are free from imperfections. Only gloves with zero leakage are considered compliant.

PERMEATION:

Permeation is the process by which a chemical passes through glove material at a molecular level. Testing is carried out under EN 16523-1 (which replaced EN 374-3). The breakthrough time (the time taken for the chemical to be detected on the inner surface) determines the glove's chemical protection performance level.

DEGRADATION:

Degradation refers to changes in the glove's physical properties after continuous contact with a chemical (e.g. softening, swelling, cracking, embrittlement). Degradation is assessed by comparing puncture resistance before and after exposure or by measuring weight change, in accordance with EN ISO 374 requirements.

SCOPE OF THE STANDARD

- EN ISO 374-1:2016 + A1:2018 – Terminology and performance requirements for chemical risks
- EN ISO 374-2:2019 – Determination of resistance to penetration
- EN ISO 374-4:2019 – Determination of resistance to degradation by chemicals
- EN ISO 374-5:2016 – Protection against micro-organisms (bacteria, fungi, viruses*)

EN ISO 374-1:2016 + A1:2018 – TERMINOLOGY AND PERFORMANCE REQUIREMENTS FOR CHEMICAL

EN ISO 374-1 specifies the classification system and performance levels for gloves intended to protect against hazardous chemicals.

Three samples are taken from the palm of the glove for testing; when the glove length is ≥ 400 mm, additional samples are also taken from the cuff to ensure full-length protection. Samples are exposed to defined test chemicals, and breakthrough time is measured. If palm and cuff produce different results, the lower value is used for classification.

The amended edition introduces six additional test chemicals to the mandatory reference list used for performance declaration.

Code	Chemical	CAS number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile composite
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Organic compound containing sulphur
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofuranne	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, oxidising
M	nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidising
N	acetic acid 99%	64-19-7	Organic acid
O	ammonia 25%	1336-21-6	Organic base
P	hydrogen peroxide 30%	7722-84-1	Peroxide
S	hydrofluoric acid 40%	7664-39-3	Inorganic mineral acid
T	formaldehyde 37%	50-00-0	Aldehyde

CLASSIFICATION ACCORDING TO PERMEATION PERFORMANCE

Performance levels classified as breakthrough time measured in minutes.

Breakthrough Time BTT (mins)	Performance Level
→10	Level 1
→30	Level 2
→60	Level 3
→120	Level 4
→240	Level 5
→480	Level 6

According to the standard, gloves are classed as: Type A, Type B or Type C depending on their performance level and number of chemicals they can protect against. The table below lists the performance level and number of chemicals required for each type:

Glove's Type	Requirement	Marking
Type A	• Penetration resistance (EN 374-2) • Breakthrough time $\geq$ 30 min against at least 6 chemicals of the new list (EN 16523-1)	EN ISO 374-1/Type A
Type B	• Penetration resistance (EN 374-2) • Breakthrough time $\geq$ 30 min against at least 3 chemicals of the new list (EN 16523-1)	EN ISO 374-1/Type B
Type C	• Penetration resistance (EN 374-2) • Breakthrough time $\geq$ 10 min against at least 1 chemical of the new list (EN 16523-1)	EN ISO 374-1/Type C

EN ISO 374-2:2019 – Determination of resistance to Penetration

Defines the method for verifying the integrity of chemical protective gloves against penetration by liquids or micro-organisms.

Testing is performed either by:

- Air-leak test – pressurized glove submerged in water; leakage is indicated by bubble formation
- Water-leak test – glove filled with water; penetration is detected by droplet formation on the exterior

Penetration testing is compulsory for all gloves to claim chemical or biological protection.

EN 16523-1:2015 + A1:2018 – Determination of resistance to Chemical Permeation (supersedes EN 374-3)

Specifies the procedure for determining the breakthrough time of chemicals through glove materials under continuous contact. Results are used for type classification (A / B / C) under EN ISO 374-1.

EN ISO 374-4:2019 – Determination of resistance to Degradation by Chemicals

Assesses changes in the mechanical integrity of glove materials after chemical exposure.

Test specimens are exposed to the chemical for 60 minutes and degradation is quantified primarily by changes in puncture resistance. Mean degradation percentage must be disclosed in the user instructions. Weight change may also be recorded.

EN ISO 374-5:2016 – Terminology and performance requirements for micro-organisms risks

Specifies performance requirements for gloves intended to protect against bacteria and fungi. Penetration testing per EN ISO 374-2 is mandatory.

EN ISO 374-5	For gloves offering protection against bacteria and fungi.
EN ISO 374-5	For gloves offering protection against bacteria, fungi and viruses.

Gloves claiming virus protection must additionally meet the requirements of ISO 16604 (Phi-X174 bacteriophage method). Any detected penetration constitutes failure.

Important Information for Use

- Laboratory test data does not represent actual protection time in use and may differ when chemicals are mixed.
- Chemical resistance is tested on palm material only under controlled conditions; workplace performance may vary.
- Users must confirm suitability for the intended application, as temperature, wear and handling conditions can reduce protection.
- Chemical contact, flexing, abrasion and wear may significantly reduce glove performance, especially with corrosive chemicals.
- Inspect gloves before use and do not use if damaged or defective.

EN 455

MEDICAL GLOVES

FOR SINGLE USE

EN 455 is a multi-part European standard defining the safety and performance requirements for disposable medical gloves used in patient care, medical examinations and surgical procedures. The standard addresses barrier integrity, mechanical strength, biological risk, and shelf-life validation.

Part	Latest Edition	Title	Purpose
EN 455-1:2020	2020	Requirements and testing for freedom from holes	Verifies barrier performance against micro-organisms through AQL-based leak testing
EN 455-2:2015	2015	Requirements and testing of physical properties	Assesses tensile strength, dimensions and durability before and after ageing
EN 455-3:2015	2015	Requirements and testing for biological evaluation	Controls extractable proteins, powder levels, endotoxins and allergenic/chemical residues
EN 455-4:2009	2009	Requirements and testing for shelf-life determination	Defines methodology to justify expiry date and long-term stability

EN 455-1:2020 - FREEDOM FROM HOLES

This part verifies that gloves act as an effective barrier to micro-organisms and blood-borne contaminants. Gloves are subjected to a water-tightness test and classified using AQL (Acceptable Quality Level).

Criterion	Requirement	Purpose
Pinholes / leaks	AQL ≤ 1.5 for medical application	Ensures microbiological barrier function under clinical conditions

EN 455-2:2015 - Physical Properties

Specifies the minimum mechanical requirements to ensure the glove retains functional integrity during donning and clinical use - both before and after accelerated ageing.

Includes:

- Tensile strength / force at break (material-dependent)
- Dimensional conformity (length, width, thickness)
- Assessment pre- and post-ageing to simulate product life-cycle

These criteria ensure the glove withstands stretching, manipulation of instruments and repeated flexing without failure.

EN 455-3:2015 – Biological Evaluation

Defines requirements to limit biological and chemical risks to users and patients.

Assesses:

- Extractable proteins (for natural rubber latex gloves) to minimize sensitization
- Residual powder level to reduce inhalation and wound contamination hazards
- Chemical residues and endotoxins - sterility and irritancy control
- Mandatory disclosure of substances known to cause allergic reactions

This part aligns glove safety with broader biocompatibility principles defined in ISO 10993 for medical devices.

EN 455-4:2009 - Shelf Life & Expiry Determination

Defines the methodology for establishing and justifying the expiry date printed on the packaging.

Requirements include:

- Accelerated and/or long-term stability testing
- Demonstration that barrier integrity and mechanical strength remain compliant until end of life
- Labelling obligations for storage conditions and expiry marking

Shelf-life claims may not be printed without controlled validation data.

IMPORTANT INFORMATION FOR USE

- Gloves are intended for single use only; reuse compromises barrier integrity
- Do not use it after the printed expiry date
- Store in a dry, cool area away from direct sunlight and ozone sources
- Inspect visually before use; discard any glove with defects or contamination
- Laboratory values do not represent actual protection time in use; performance can be reduced by temperature, flexing, mechanical stress, abrasion, and chemical contact

EN 1186

FOOD CONTACT

COMPLIANCE FOR GLOVES

EN 1186 defines the migration test methods used to verify that gloves intended to come into contact with food do not transfer substances into food at levels that could compromise human health or alter food composition. Compliance with EN 1186 supports conformity with current EU food-contact legislation (incl. Regulation (EU) No. 10/2011 and amendments).

MIGRATION COMPLIANCE LIMITS

Parameter	Definition	Limit
OML – Overall Migration Limit	Total quantity of non-volatile substances released from glove to food simulant	≤ 10 mg/dm² of food-contact area
SML – Specific Migration Limit	Maximum permissible migration of a regulated individual substance (e.g. metals, monomers, additives)	Substance-specific per EU legislation

FOOD SIMULANTS APPLIED UNDER EN 1186

Simulant	Representative Food Type
A – 10% ethanol	Hydrophilic (aqueous) foods
B – 3% acetic acid	Acidic foods (pH ≤ 4.5)
C – 20% ethanol	Alcoholic foods ≤ 20% vol
D1 – 50% ethanol	Oil-in-water & alcohol → 20% vol
D2 – Vegetable oil	Fatty foods
E – MPP0 polymer	Dry foods

COMPLIANCE PATHWAY

- 1. **Formulation Control**
Only authorised substances permitted for food contact under current EU legislation may be used.
- 2. **Migration Verification (EN 1186)**
Test specimens must comply with OML and, where relevant, SML under the prescribed simulant and temperature regime.
- 3. **Documentation & Marking**
Gloves meeting requirements may display the food contact ("glass & fork") symbol, supported by migration test reports and technical documentation.



USER PRECAUTIONS

- Laboratory migration values do not reflect actual safe-use duration in operations
- Real performance may vary with time, temperature, fat content, food chemistry and mechanical stress
- Gloves are to be used only for declared food categories and conditions of use

ASTM F2675-23
ARC RATING OF HAND
PROTECTIVE PRODUCTS

ASTM F2675-23 is the latest standard test method for determining the arc rating of gloves and hand protective products used for electrical arc flash protection. Prior to this standard, no specific method existed for evaluating the arc flash performance of hand protection.

An arc flash is an intense release of thermal energy and light caused by an electrical arc. Arc-rated gloves help employers meet regulatory safety obligations and reduce the severity of burns in arc-flash incidents.

Arc rating under ASTM F2675 is determined as the incident energy (cal/cm²) at which there is a 50% probability of injury or material failure. Two possible outcomes may define the arc rating:

- ATPV (Arc Thermal Performance Value) - Incident energy causing a 50% probability of onset of a second-degree burn
- EBT (Energy Break-Open Threshold) - Incident energy causing a 50% probability of material break-open (≥ 1.6 cm² opening)

The lower of ATPV or EBT becomes the declared Arc Rating.

NFPA 70E (LATEST EDITION - 2024) PPE CATEGORY SYSTEM:

The current framework classifies arc-flash PPE into PPE Categories 1 to 4 based on required minimum arc rating:

NFPA 70E PPE Category	Minimum Arc Rating Requirement
CAT 1	≥ 4 cal/cm²
CAT 2	≥ 8 cal/cm²
CAT 3	≥ 24 cal/cm²
CAT 4	≥ 40 cal/cm²

Arc-rated gloves should be selected such that the Arc Rating (ATPV/EBT) is equal to or greater than the calculated or labelled incident energy at the point of use

IMPORTANT USER INSTRUCTION:

- ASTM F2675-23 provides the test method - NFPA 70E provides the selection framework
- ATPV and EBT are determined in the same test; the first reached governs the rating
- Arc rating applies only to arc heat, not to thermal contact, flame, cut or other hazards

ANSI/ISEA 105:2024
HAND PROTECTION
CLASSIFICATION

ANSI/ISEA 105:2024 classifies glove performance for mechanical hazards (cut, abrasion, puncture), hypodermic needle puncture, chemical performance (where applicable), and impact. The 2024 update standardises labelling via a pentagon pictogram showing abrasion, cut, and puncture levels in one badge.

1) CUT RESISTANCE -
ASTM F2992-23 (TDM-100)

In this test, a straight-edge razor blade mounted in a TDM-100 machine moves 20 mm across the glove material under increasing loads. Multiple cuts are made at different loads until consistent cut-through is achieved. The average cutting force required to fully penetrate the sample is measured in grams, and this value is then mapped to the ANSI A1-A9 cut protection level, where a higher force means better cut resistance.

ANSI Cut Level	Force (grams)
A1	≥ 200
A2	≥ 500
A3	≥ 1,000
A4	≥ 1,500
A5	≥ 2,200
A6	≥ 3,000
A7	≥ 4,000
A8	≥ 5,000
A9	≥ 6,000

2) ABRASION RESISTANCE -
ASTM D3389-21 / D3884-22 (TABER)

The abrasion resistance test uses a Taber Abrader where a circular glove material sample is placed on a rotating platform. Two abrasive wheels (H-18) apply a fixed load while rubbing the surface until the material wears through. The total number of cycles at breakthrough is recorded. Higher cycle counts signify better abrasion performance and are classified into ANSI Levels 0-6 depending on load and cycles.

ANSI Abrasion Level	Load (g)	Cycles to Failure
0	500	← 100
1	500	≥ 100
2	500	≥ 500
3	500	≥ 1,000
4	1,000	≥ 3,000
5	1,000	≥ 10,000
6	1,000	≥ 20,000

3) PUNCTURE RESISTANCE
OTHER THAN HYPODERMIC -
EN 388 BLUNT PROBE

In this method, a blunt stylus is driven into the glove material at a controlled speed until it penetrates through the sample. The maximum force required to puncture the sample is recorded in Newtons. Gloves are then classified into ANSI Puncture Levels 0-5 based on this penetration force. Higher forces reflect stronger resistance to puncture from blunt objects.

ANSI Puncture Level	Force (N)
0	← 10
1	10-19
2	20-59
3	60-99
4	100-149
5	≥ 150

4) HYPODERMIC NEEDLE PUNCTURE - ASTM F2878-19(2024)

This test evaluates resistance to sharp, needle-like threats using medical hypodermic needles (commonly 25 gauge). The needle is pressed into the material at a constant displacement rate until full penetration is achieved. The maximum force in Newtons is used to rate the glove on the ANSI Needle Puncture scale from Level 0 to 5, where higher force indicates better resistance to fine needle hazards.

ANSI Puncture Level	Force (N, 25G)
0	≤ 2
1	≥ 2
2	≥ 4
3	≥ 6
4	≥ 8
5	≥ 10

5) IMPACT PROTECTION - ANSI/ISEA 138-2019

For impact testing, controlled impacts are applied to the dorsal (back-of-hand) padding over knuckles and fingers. Sensors beneath the sample measure the force transmitted through the glove material. The average transmitted force and the worst single impact determine the level. The lowest-performing zone sets the final impact rating (Levels 1 - 3), with Level 3 offering the highest impact resistance.

Level	Mean Transmitted (kN)	Any Single Impact (kN)
1	≤ 9.0	≤ 11.3
2	≤ 6.5	≤ 8.1
3	≤ 4.0	≤ 5.0

Performance Level	Mean Transmitted Force	Increasing Protection
ANSI/ISEA 138 	$\leq 4\text{kN}$	
ANSI/ISEA 138 	$\leq 6.5\text{kN}$	
ANSI/ISEA 138 	$\leq 9\text{kN}$	

- The test is performed by dropping a falling weight on the impact areas of the glove recording the force transferred in kilo Newton (kN).
- A drop striker is dropped – with an energy force of 5 joules – onto the glove, which is placed on an anvil
- There are 9 impact sites tested on each glove (see diagram)
- Total of 18 tested impacts (8 knuckles, 10 fingers and thumb) will be used to calculate the mean of the forces
- The weakest performance area defines the overall performance level of the glove and the protection level is given at the glove marking.

TEST IMPACT ZONE

DISTANCE FROM TIP



25mm from tip

50mm from tip



Knuckle Impacts

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