

The logo features the word "SHOWA" in a bold, black, sans-serif font. The letter "O" is replaced by a stylized green graphic consisting of three vertical bars of varying heights, with a horizontal bar at the base. Above this graphic, there are five vertical green lines of varying lengths, creating a sense of motion or a signal. The entire logo is centered on a white background with large, rounded, vertical cutouts.

SHOWA[®]

Always Innovating. Never Imitating.[®]



6,600
EMPLOYEES
WORLDWIDE



100 +
RESEARCHERS

6

PRODUCTION FACILITIES AROUND THE GLOBE



PATENTS

58



OWNED



100%
INTEGRATED
MANUFACTURING



1 BRAND



71 YEARS
OF UNRIVALED
PROTECTION & INNOVATION

SHOWAgroup.com

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SHOWA GROUP



WE ARE SHOWA

SHOWA is a fully integrated manufacturer. We fully control our industrial ecosystem by creating our own machinery, yarns, coatings, polymers, designs, and hand formers. We control every step of our process, every step of the way - for 100% quality control at every level. SHOWA makes protective gloves for all industries and applications requiring high quality hand protection.

GLOBAL REACH



Our hand protection solutions are grouped into five major product families or clusters:



CHEMICAL & LIQUIDS



GENERAL PURPOSE



INSULATED



SINGLE USE



CUT



Strategy & Operations



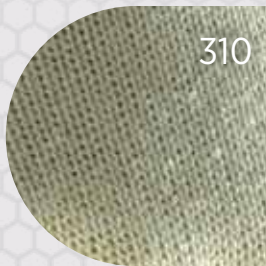
Production & Manufacturing



Research & Development

MATERIALS AND THEIR PERFORMANCE

SHOWA offers a wide range of materials and coatings. Compare the strengths and drawbacks of each and choose the compositions that best meet your needs!



COTTON

Natural cellulose fibre. Flexible, soft and non-irritating, it protects against mechanical aggression (impacts, low vibration, iron filings, splinters, glass fragments), absorbs perspiration and gives you great comfort when wearing dipped protective gloves continuously. Cotton fibres are mixed with polyester fibres in order to associate comfort with a higher mechanical resistance and more elasticity.



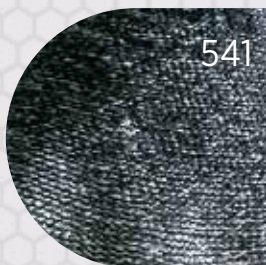
NYLON

A lightweight elastic polyamide which is largely lint-free and washable, dries quickly and is resistant to abrasion and deformation. Mixed with cotton and acrylic, it makes the glove more flexible and extends its lifetime.



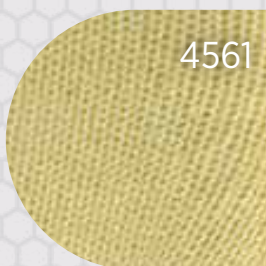
ACRYLIC

A polymer that is resistant to water, common solvents, acids and weak alkalis, and that is resistant to abrasion and to traction. Soft and warm, it insulates you from the cold. Mixed with cotton, it makes the knit more lightweight.



HPPE

High performance polyethylene is flexible, light and durable. As resistant to cutting as a para-aramid but with more resistance to abrasion (ten times more resistant to flexion than a wire), it remains resistant to chemicals, in particular solvents.



KEVLAR

It is lightweight, supple, comfortable and washable. It provides effective protection from cuts (above level 5, with stainless steel reinforcing) and from convective heat and offers durability and performance that far exceed that of leather (5 times higher) and cotton (3 times higher).



EACH COATING HAS ITS QUALITIES

NITRILE

Anti-slip vulcanised synthetic rubber

- + Excellent abrasion and cut resistance
- + Three times the puncture resistance of natural rubber latex
- + Good mechanical performance
- + Excellent resistance to oil, grease and hydrocarbons
- + Good resistance to acids, certain organic solvents, pesticides, oils and fuels
- + Heat resistance (but no flame resistance)
- + Does not contain Natural Rubber proteins
- + Dissipates static electricity: prevents electrostatic discharge

- Relatively rigid
- Normally low tear resistance
- No chemical resistance against ketones and some chlorinated hydrocarbons, this is necessary because both methylene chloride and trichloroethylene are chlorinated hydrocarbons

NATURAL RUBBER

Natural rubber latex mainly from the rubber tree

- + Very flexible and elastic
- + Good grip
- + Excellent resistance to tearing and bending
- + Good resistance to abrasion
- + Very robust
- + Waterproof
- + Protects against weak acids, caustics, alcohols and detergents
- + Protection against viruses and bacteria

- Poor chemical resistance against oils, greases, hydrocarbons and organic solvents
- Proteins may cause allergies

POLYURETHANE PU

Plastic that is a microporous elastomer

- + Very flexible and elastic
- + Does not contain Natural Rubber proteins
- + Clean - does not shed particles like other polymers
- + Good resistance to abrasion
- + Good resistance to oil
- + Does not harden in the cold
- + Does not soften in the heat
- + Excellent perspiration thanks to porous ventilation

- Low chemical resistance
- Poor resistance to hot water

PVC POLY VINYL CHLORIDE

Impermeable plastic

- + Flexible at even -20°C
- + Material softened by a plasticizer
- + Good electrical insulator
- + High chemical resistance

- Low resistance to cuts, puncturing and heat
- Single use PVC gloves might have pinholes
- Low resistance to solvents

NEOPRENE

Polychloroprene synthetic rubber

- + Flexible and soft like natural rubber
- + Does not contain Natural Rubber proteins
- + Good abrasion and cut resistant
- + Chemical protection against acids, alcohols, fats, ketones, organic and inorganic solvents, oils, greases and petrochemicals
- + Heat resistant and flame resistant

- Poor grip when wet
- No chemical resistance against chlorinated hydrocarbon solvents

BUTYL

Synthetic rubber polymer for heavy chemical protection

- + Very elastic, even at low temperatures
- + Excellent chemical resistance against ketones (MEK, acetone) and acids
- + Low gas permeability
- + Dissipates perfectly static electricity: prevents electrostatic discharge

- Limited grip
- Limited dexterity
- Poor mechanical resistance
- Poor resistance to aliphatic hydrocarbons (hexane, diesel, gasoline), aromatic hydrocarbons (benzene, toluene, xylene) and halogenated solvents (chloroform and chlorobenzene)

VITON

Synthetic rubber polymer - the last resort

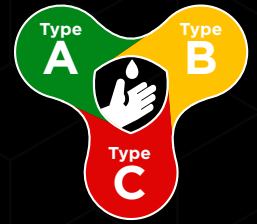
- + Protects where nothing else protects
- + Chemical protection against PCBs
- + Excellent chemical protection against chlorinated, aliphatic and aromatic hydrocarbons

- Limited grip
- Limited dexterity
- Not suitable for ketones, esters and nitro compounds



CHEMICAL PROTECTION

SHOWA has an extensive portfolio of chemical hand protection ranging from Type A to Type C.



Chemrest makes navigating the challenges of chemical resistant hand protection easier for safety professionals by providing an entire portfolio of products, resources and tools in one platform.

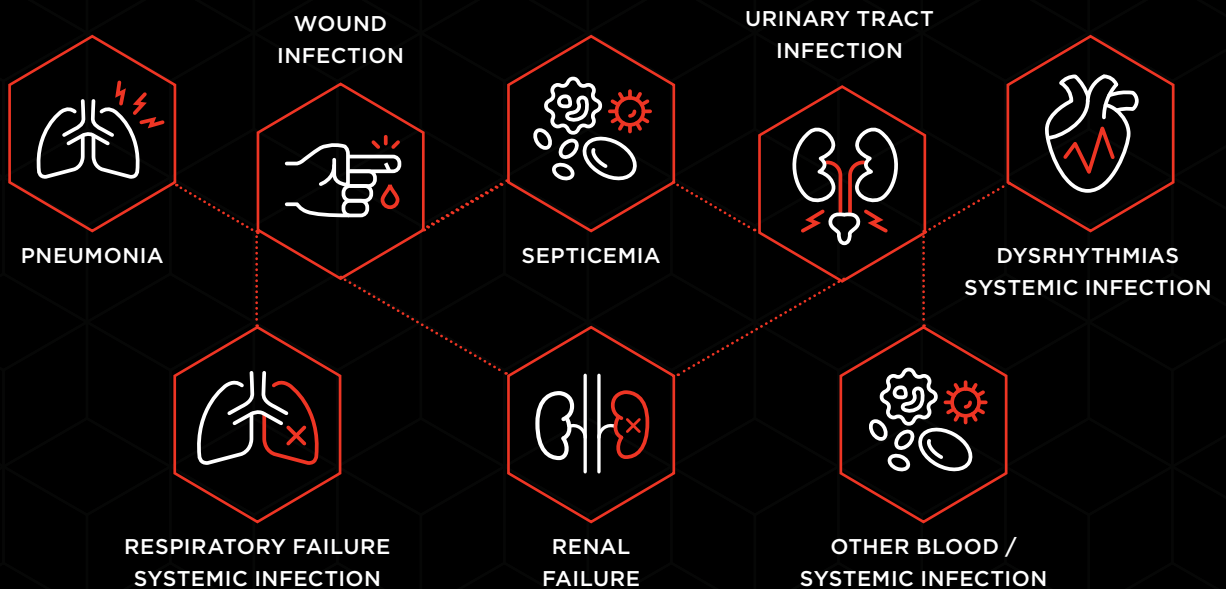
THE DANGERS OF CHEMICALS AT WORK

Chemicals and abrasive solvents are used by billions of people globally. In fact, there are more than 350,000 chemicals & chemical mixtures in the world, registered for commercial production and use (Environ. Sci. Technol. 2020). Workers who are in contact with chemicals, hazardous substances and gases - even simple cleaning detergents - are putting their hands at risk.

While chemical injuries occur more frequently in occupations where chemicals are manufactured, they also happen in other high-risk industries such as mining, painting, construction, oil & gas, healthcare, warehousing, transportation, agriculture and welding. Some chemical injuries happen when workers are (unintentionally) exposed to seemingly non-harmful solutions or gases over long periods of time.

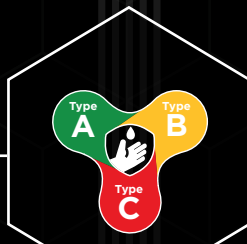
COMPLICATIONS FROM CHEMICAL BURNS

Patients with chemical burns can go on to suffer the following complications:



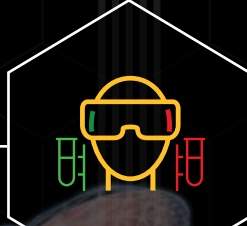
REINFORCE YOUR DEFENCE WITH THE CHEMREST PROTECTION PLATFORM

SHOWA aims to empower customers with the knowledge and tools to make better and more informed choices about their chemical hand protection.



EDUCATE

Coherent tools & training on hand protection against chemicals



EVALUATE

Full risk assessment & in-house lab testing of customer-specific chemicals



EQUIP

A complete series of protective gloves adapted to all industries and uses



VISIT [CHEMREST.COM](https://www.chemrest.com) TO FIND THE RIGHT GLOVE

PROTECTION AND PRESERVATION IN ONE

Sustainability isn't just a commitment - it's part of SHOWA's legacy. Our revolutionary Eco Best Technology® (EBT) offers the solution that makes a difference to the environment, without any compromise on protection and performance.

HOW DOES EBT WORK?



SAME GLOVE, BETTER FOR THE PLANET.

SHOWA's revolutionary Eco Best Technology® (EBT) makes a difference to the environment, without any compromise in protection and performance. Launched in 2012,



our biodegradable nitrile gloves are the industry's first, and today, SHOWA offers the most extensive selection of biodegradable hand protection in the market.

SHOWA LAUNCHED ITS EBT TECHNOLOGY IN 2012 - A DECADE OF SUSTAINABILITY

ECO BEST TECHNOLOGY GLOVES COME FROM GUATEMALA AND THE USA WITH A LOWER CARBON FOOTPRINT

EBT gloves offer the best protection, performance and are better for the planet.

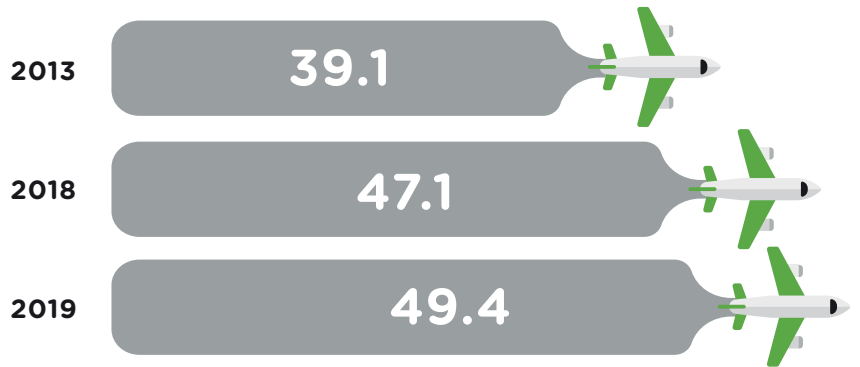


95%

of protective gloves are currently manufactured in Asia, compared to just **1%** from the American continent.

The environmental impact of shipping from Asia to Europe is huge:

CARBON EMISSIONS FROM COMMERCIAL AVIATION BETWEEN ASIA AND EUROPE 2013-2019, MILLION METRIC TONS



Freight CO₂ emissions between Asia and Europe are projected to increase by

124% more than for North America to Europe.



SHOWA'S site in Fayette will create

300 jobs and produce

2.8 billion gloves

by the end of 2024.

— Made in our factory in Guatemala
— Made in Asia

New Orleans

Guatemala

4,786 miles



20 days

Rotterdam

11,554 miles



48 days

Port Klang, Malaysia

Sources: ICCT, OECD, searoutes.com, SHOWA

NITRILE



SHOWA

CS700

Double dipped nitrile coating with rough grip over seamless liner

BENEFITS

- Anti-slip Grip
- Chemical-resistant
- Oil-resistant
- Seamless knit
- Robust durability
- Natural rubber free

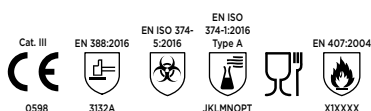
FEATURES

Liner: **Polyester**
Coating: **Double coated Nitrile**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products
- Washing and cleaning

REF	SIZE	LENGTH
CS700	7/S	300mm
CS700	8/M	300mm
CS700	9/L	300mm
CS700	10/XL	300mm
CS700	11/XXL	300mm



SHOWA

CS701

Double dipped nitrile coating with rough grip over seamless liner and forearm protection

BENEFITS

- Anti-slip Grip
- Chemical-resistant
- Oil-resistant
- Seamless knit
- Robust durability
- Forearm protection
- Natural rubber free

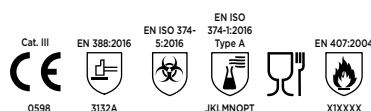
FEATURES

Liner: **Polyester**
Coating: **Double coated Nitrile**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products
- Washing and cleaning

REF	SIZE	LENGTH
CS701	7/S	350mm
CS701	8/M	350mm
CS701	9/L	350mm
CS701	10/XL	350mm
CS701	11/XXL	350mm



SHOWA

CS710

Foamed nitrile palm coating with enhanced grip and seamless liner

BENEFITS

- Chemical-resistant
- Oil-resistant
- Seamless knit
- Extra Grip
- Robust durability
- Natural rubber free

FEATURES

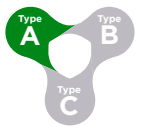
Liner: **Polyester**
Coating: **Double coated Nitrile Microporous Nitrile**
Grip: **Foam**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products
- Washing and cleaning

REF	SIZE	LENGTH
CS710	7/S	300mm
CS710	8/M	300mm
CS710	9/L	300mm
CS710	10/XL	300mm
CS710	11/XXL	300mm





SHOWA CS711

Foamed nitrile palm coating with enhanced grip and seamless liner offering forearm protection

BENEFITS

- Chemical-resistant
- Oil-resistant
- Extra Grip
- Seamless knit
- Robust durability
- Forearm protection
- Natural rubber free

FEATURES

Liner: **Polyester**
Coating: **Double coated Nitrile Microporous Nitrile**
Grip: **Foam**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products

REF	SIZE	LENGTH
CS711	7/S	350mm
CS711	8/M	350mm
CS711	9/L	350mm
CS711	10/XL	350mm
CS711	11/XXL	350mm



SHOWA CS720

Rough finish nitrile palm coating over polyester liner

BENEFITS

- Seamless knit
- Increased dexterity
- Oil-resistant
- Chemical-resistant
- Forearm protection
- Anti-slip Grip
- Robust durability
- Natural rubber free

FEATURES

Liner: **Polyester**
Coating: **Double Coated Nitrile**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products
- Washing and cleaning

REF	SIZE	LENGTH
CS720	7/S	300-320mm
CS720	8/M	300-320mm
CS720	9/L	300-320mm
CS720	10/XL	300-320mm
CS720	11/XXL	300-320mm



SHOWA CS721

Rough finish nitrile palm coating over polyester liner offering forearm protection

BENEFITS

- Seamless knit
- Increased dexterity
- Oil-resistant
- Chemical-resistant
- Forearm protection
- Anti-slip Grip
- Robust durability
- Natural rubber free

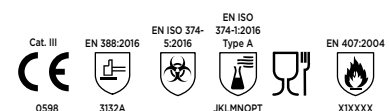
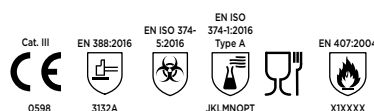
FEATURES

Liner: **Polyester**
Coating: **Double Coated Nitrile**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fruit & vegetable processing
- Grain, mill and starch products
- Washing and cleaning

REF	SIZE	LENGTH
CS721	7/S	350mm
CS721	8/M	350mm
CS721	9/L	350mm
CS721	10/XL	350mm
CS721	11/XXL	350mm



NITRILE



EBT



SHOWA

707D

Unsupported full nitrile coating with tractor tread finish unlined

BENEFITS

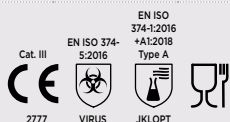
- Biodegradable
- Form-fitting
- Easy donning and doffing
- Chemical-resistant
- Oil-resistant
- Water-resistant
- Abrasion-resistant
- Hydrocarbon-resistant
- Impermeable

FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,23mm**
 Grip: **Embossed**
+ Ergonomic, Chlorinated, Eco Best Technology® (EBT) Rolled Cuff

- Chemical spray and treatment
- Coating preparation
- Food packing and handling
- Fruit & vegetable processing
- Poultry, meat & seafood processing
- Sanitation and dishwashing
- Washing and cleaning
- Laboratory, pharma & analysis

REF	SIZE	LENGTH
707D	6/XS	305mm
707D	7/S	305mm
707D	8/M	305mm
707D	9/L	305mm
707D	10/XL	305mm
707D	11/XXL	305mm



EBT



SHOWA

707FL

Cotton flocklined nitrile gauntlet with tractor tread finish

BENEFITS

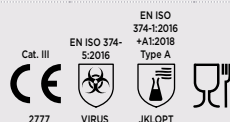
- Biodegradable
- Forearm protection
- Form-fitting
- Easy donning and doffing
- Chemical-resistant
- Oil-resistant
- Water-resistant
- Abrasion-resistant
- Hydrocarbon-resistant
- Impermeable

FEATURES

Liner: **Cotton Flocked**
 Coating: **Nitrile**
 Thickness: **0,28mm**
 Grip: **Embossed**
+ Ergonomic, Chlorinated, Eco Best Technology® (EBT) Rolled Cuff

- Chemical spray and treatment
- Coating preparation
- Food packing and handling
- Fruit & vegetable processing
- Poultry, meat & seafood processing
- Sanitation and dishwashing
- Washing and cleaning
- Laboratory, pharma & analysis

REF	SIZE	LENGTH
707FL	6/XS	305mm
707FL	7/S	305mm
707FL	8/M	305mm
707FL	9/L	305mm
707FL	10/XL	305mm
707FL	11/XXL	305mm



EBT



SHOWA

707HVO

Unsupported, unlined, biodegradable nitrile engineered with EBT® technology

BENEFITS

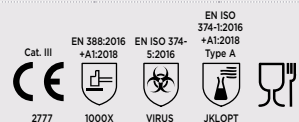
- Biodegradable
- Form-fitting
- Abrasion-resistant
- Oil-resistant
- Hydrocarbon-resistant
- Increased visibility
- Water-resistant
- Chemical-resistant
- Easy donning and doffing

FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,23mm**
 Grip: **Bisque**
+ Rolled Cuff, Chlorinated, Eco Best Technology® (EBT),

- Chemical spray and treatment
- Coating preparation
- Food packing and handling
- Sanitation and dishwashing
- Washing and cleaning
- Laboratory, pharma & analysis
- Pharmaceuticals and API

REF	SIZE	LENGTH
707HVO	6/XS	305mm
707HVO	7/S	305mm
707HVO	8/M	305mm
707HVO	9/L	305mm
707HVO	10/XL	305mm
707HVO	11/XXL	305mm





PROTECTION AND PRESERVATION IN ONE

Sustainability isn't just a commitment - it's part of SHOWA's legacy.

Our revolutionary Eco Best Technology® (EBT) offers the solution that makes a difference to the environment, without any compromise on protection and performance.

Utilizing the organic process to measure how our gloves break down in a natural setting, our EBT technology outperforms the industry norm in enviro-standardized testing*. Launched in 2012, our biodegradable nitrile gloves are the industry's first, and today, SHOWA offers the most extensive selection of biodegradable hand protection on the market.

Every SHOWA EBT glove is made with the same rigid quality controls and standards as our entire portfolio. That means the overall performance of the glove - its durability, comfort, grip and protection - stays exactly the same.

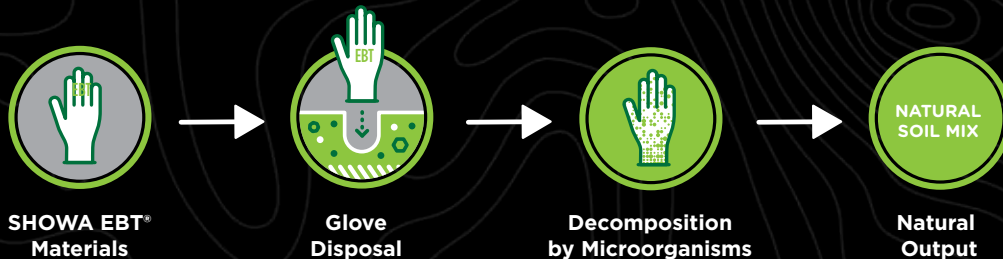
*As proven with ASTM D5511 & D5526 test results



TESTED **ASTM D5526** **ASTM D5511**

REDUCED ENVIRONMENTAL IMPACT

HOW DOES EBT WORK?



SHOWA'S DISCLAIMER

SHOWA gloves with EBT are engineered for accelerated biodegradation in biologically active landfills. Independent certified laboratories performing longterm landfill biodegradation testing according to ASTM D5526-12 reported that SHOWA gloves with EBT achieved 82.0% biodegradation in only 386 days, while gloves without EBT achieved only 1.9% biodegradation over the same period of time. These results may not be indicative of future biodegradation.

NITRILE



SHOWA

727

Unsupported, full nitrile coating with textured finish

BENEFITS

- Chemical-resistant
- Water-resistant
- Forearm protection
- Oil-resistant
- Flexible

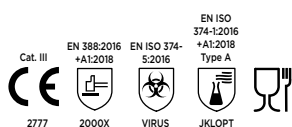
FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,38mm**
 Grip: **Textured**
+ Ergonomic, Unsupported

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Light assembly of oil-coated pieces
- Painting & spray workshops
- Coating preparation
- Washing and cleaning

REF	SIZE	LENGTH
727	7/S	330mm
727	8/M	330mm
727	9/L	330mm
727	10/XL	330mm
727	11/XXL	330mm



SHOWA

730

Unsupported, full nitrile coating with textured finish over cotton flocklined

BENEFITS

- Forearm protection
- Chemical-resistant
- Oil-resistant
- Impermeable

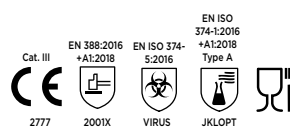
FEATURES

Liner: **Cotton Flocked**
 Coating: **Nitrile**
 Thickness: **0,38mm**
 Grip: **Textured**
+ Ergonomic, Unsupported

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Light assembly of oil-coated pieces
- Painting & spray workshops
- Coating preparation
- Washing and cleaning

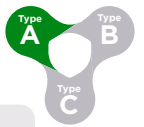
REF	SIZE	LENGTH
730	6/XS	330mm
730	7/S	330mm
730	8/M	330mm
730	9/L	330mm
730	10/XL	330mm
730	11/XXL	330mm



The SHOWA 730 nitrile glove provides protection against a broad range of oils, solvents and chemicals. Textured finish increases wet grip for enhanced ease and safety.



NITRILE



SHOWA 737

Unsupported, nitrile coating with textured finish

BENEFITS

- Forearm protection
- Chemical-resistant
- Oil-resistant
- Impermeable

FEATURES

Liner: **Unlined**
Coating: **Nitrile**
Thickness: **0,56mm**
Grip: **Textured**
+ Ergonomic, Textured Finish, Unsupported

APPLICATIONS

- Light assembly of oil-coated pieces
- Painting & spray workshops
- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Pool /Pond Maintenance
- Handling plants and vegetables
- Washing and cleaning

REF	SIZE	LENGTH
737	9/L	380mm
737	10/XL	380mm
737	11/XXL	380mm



SHOWA 747

Unsupported, full nitrile coating with textured finish

BENEFITS

- Forearm protection
- Chemical-resistant
- Oil-resistant
- Impermeable

FEATURES

Coating: **Nitrile**
Thickness: **0,56mm**
Grip: **Textured**
+ Unsupported, Textured Finish Ergonomic

APPLICATIONS

- Chemical spray and treatment
- Handling light chemicals in agriculture, horticulture
- Light assembly of oil-coated pieces
- Painting & spray workshops
- Coating preparation
- Washing and cleaning

REF	SIZE	LENGTH
747	9/L	480mm
747	10/XL	480mm
747	11/XXL	480mm



SHOWA 731

Unsupported, biodegradable nitrile coating (EBT®) with textured finish over cotton flocklined

BENEFITS

- Chemical-resistant
- Extra Grip
- Increased dexterity
- Biodegradable
- Water-resistant
- Flexible
- Acid-resistant
- Reusable

FEATURES

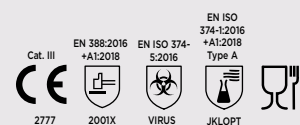
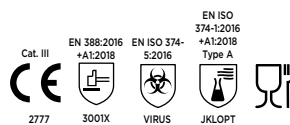
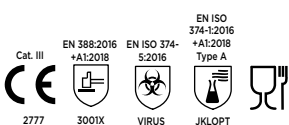
Liner: **Cotton Flocked**
Coating: **Nitrile, Unsupported**
Thickness: **0,38mm**
Grip: **Textured**
+ Eco Best Technology® (EBT), Created with premium-grade compounds, Strong chemical resistance

APPLICATIONS

- Chemical spray and treatment
- Handling plants and vegetables
- Handling light chemicals in agriculture, horticulture
- Light assembly of oil-coated pieces
- Coating preparation
- Assembly dry and oily parts
- Food packing and handling
- Washing and cleaning
- Deck crew

REF	SIZE	LENGTH
731	7/S	330mm
731	8/M	330mm
731	9/L	330mm
731	10/XL	330mm
731	11/XXL	330mm

EBT



NITRILE



EBT

SHOWA

NSK 24

Biodegradable nitrile coating (EBT®) with rough finish on the hand over cotton jersey liner

BENEFITS

- Acid-resistant
- Oil-resistant
- Hydrocarbon-resistant
- Forearm protection
- Natural rubber
- Water-resistant
- Biodegradable

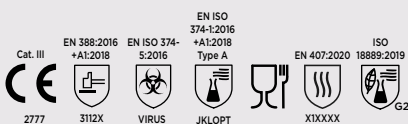
FEATURES

Liner: **Cotton**
 Coating: **Nitrile**
 Grip: **Rough**
 + Eco Best Technology® (EBT)

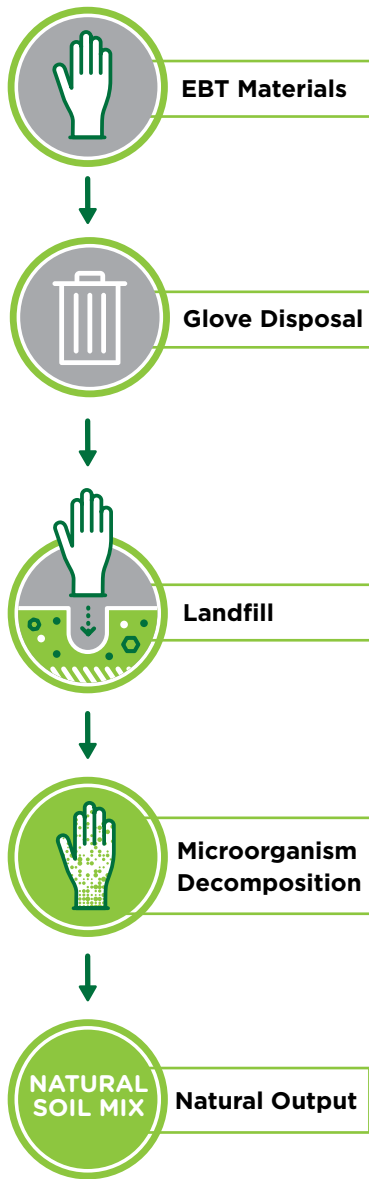
APPLICATIONS

- Light Chemical Handling in Horticulture, Agriculture
- Painting & spray workshops
- Chemical spray and treatment
- Coating preparation
- Food Service/Food Prep
- Sanitation and dishwashing
- Washing and cleaning
- Deck crew.
- Water/Sewage treatment

REF	SIZE	LENGTH
NSK 24	8/S	350mm
NSK 24	9/M	350mm
NSK 24	10/L	350mm
NSK 24	11/XL	350mm



BIODEGRADATION PROCESS



SHOWA

CHM

Unsupported natural rubber/neoprene coating with embossed grip over cotton flocklined

BENEFITS

- Flexible
- Increased sensitivity
- Chemical-resistant
- Neoprene over natural rubber

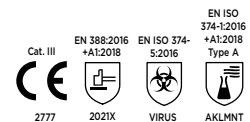
FEATURES

Liner: **Cotton Flocked**
 Coating: **Neoprene over Natural Rubber**
 Thickness: **0,66mm**
 Grip: **Embossed**

APPLICATIONS

- Mechanical and engineering
- Painting & spray workshops
- Chemical spray and treatment
- Coating preparation
- Assembly dry and oily parts
- Washing and cleaning

REF	SIZE	LENGTH
CHM	7/S	305mm
CHM	8/M	305mm
CHM	9/L	305mm
CHM	10/XL	305mm





SHOWA 3415

Full neoprene coating over polyester liner

BENEFITS

- Extra Grip
- Flexible
- Oil-resistant
- Chemical-resistant
- Increased dexterity
- Skin-friendly
- Seamless knit
- Acid-resistant

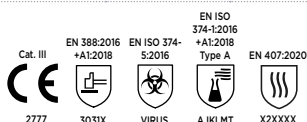
FEATURES

Liner: **Polyester**
Coating: **Fully-coated neoprene**
Grip: **Rough**
Strong chemical resistance

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Component Assembly
- Pipe Fitters
- Drilling
- Digging
- Deck crew
- Water/Sewage treatment
- Plumbing

REF	SIZE	LENGTH
3415	8/S	355mm
3415	9/M	355mm
3415	10/L	355mm
3415	11/XL	355mm



SHOWA 3416

Full neoprene coating over engineered cut resistant liner

BENEFITS

- Cut-resistant
- Seamless knit
- Acid-resistant
- Flexible
- Extra Grip
- Increased dexterity
- ANSI Cut Level E

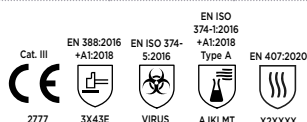
FEATURES

Liner: **HPPE**
Coating: **Fully-coated neoprene**
Grip: **Rough**
Strong chemical resistance

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Handling glass and windows
- Window manufacturing
- Handling heavy equipment
- Drilling
- Deck crew

REF	SIZE	LENGTH
3416	8/S	355mm
3416	9/M	355mm
3416	10/L	355mm
3416	11/XL	355mm



CHEMICAL RESISTANCE GUIDE SHOWA 3415 AND 3416

CHEMICAL AGENT	CAS NUMBER	ASTM F739 BDT
ACETALDEHYDE	75-07-0	8
ACETONE	67-64-1	17
BENZENE	71-43-2	32
CYCLOHEXANE	110-82-7	>480
CYCLOHEXANONE	108-94-1	140
DIISOBUTYL KETONE	108-83-8	380
MEK	78-93-3	22
METHANOL	67-56-1	136
METHYL ISOPROPYL KETONE	563-80-4	44
METHYLENE CHLORIDE	75-09-2	7
OLEUM (20% FREE SO ₃)	8014-95-7	165
PENTANE	109-66-0	>480
PHENOL, > 89%	108-95-2	359
SULFURIC ACID, 96%	7664-93-9	265
TETRACHLOROETHYLENE	127-18-4	188
TOLUENE	108-88-3	36
TOLUENE 2,4-DIISOCYANATE	584-84-9	>480
XYLENE	1330-20-7	66

NEOPRENE



SHOWA
6780

Rugged neoprene coating with soft cotton liner

BENEFITS

- Chemical-resistant
- Cut-resistant
- Abrasion-resistant
- Acid-resistant
- Oil-resistant
- Soft liner
- Reusable
- Water-resistant

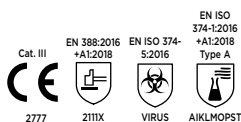
FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Smooth**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Assembly dry and oily parts
- Deck crew

REF	SIZE	LENGTH
6780	10/L	305mm



SHOWA
6780R

Rugged neoprene coating with rough grip and soft cotton liner

BENEFITS

- Chemical-resistant
- Cut-resistant
- Abrasion-resistant
- Acid-resistant
- Oil-resistant
- Water-resistant
- Soft liner
- Extra Grip

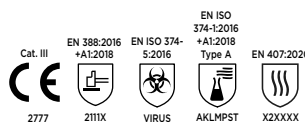
FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Assembly dry and oily parts
- Deck crew

REF	SIZE	LENGTH
6780R	10/L	305mm



SHOWA
6781R

Full neoprene coating over cotton jersey liner

BENEFITS

- Burn protection
- Extra Grip
- Abrasion-resistant
- Soft liner
- Chemical-resistant
- Cut-resistant
- Heat-resistant

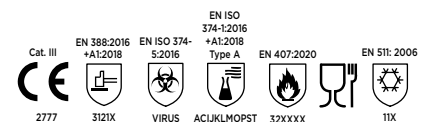
FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough Insulated**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Handling light chemicals in agriculture, horticulture

REF	SIZE	LENGTH
6781R	10/L	305mm





SHOWA
6781R-06

Strong neoprene coating with a nitrile insulated sleeve and rough grip

BENEFITS

- Chemical-resistant
- Burn protection
- Extra Grip
- Abrasion-resistant
- Soft liner
- Cut-resistant
- Heat-resistant

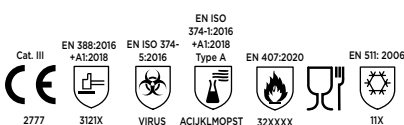
FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough**
Insulated nitrile sleeve

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Handling light chemicals in agriculture, horticulture

REF	SIZE	LENGTH
6781R-06	10/L	457mm



SHOWA
6781R-145

Strong neoprene coating with a nitrile insulated sleeve offering full arm protection

BENEFITS

- Burn protection
- Extra Grip
- Abrasion-resistant
- Soft liner
- Chemical-resistant
- Cut-resistant
- Heat-resistant
- Full-arm protection

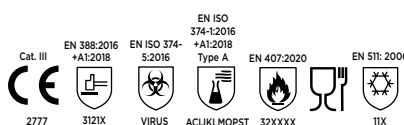
FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough**
Insulated nitrile sleeve

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Handling light chemicals in agriculture, horticulture

REF	SIZE	LENGTH
6781R-145	10/L	650mm



Both models displayed are used to protect the hands against heat, working with temperatures up to 662°F or 350°C. The SHOWA 6781R-145 offers full arm protection being 650mm long compared to the 6781R-06 at 457mm long.

NEOPRENE



SHOWA
6784

Rugged neoprene coating over soft liner providing enhanced dry grip

BENEFITS

- Acid-resistant
- Chemical-resistant
- Oil-resistant
- Abrasion-resistant
- Cut-resistant
- Forearm protection

FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Smooth**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops



SHOWA
6784R

Rugged neoprene, rough surface grip and soft cotton liner

BENEFITS

- Acid-resistant
- Chemical-resistant
- Oil-resistant
- Abrasion-resistant
- Cut-resistant
- Forearm protection

FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough**

APPLICATIONS

- Biotechnology
- Cytostatics
- Life sciences
- Pharmaceuticals and API



SHOWA
6797

Full neoprene coating over breathable cotton liner with elbow length gauntlet

BENEFITS

- Acid-resistant
- Chemical-resistant
- Oil-resistant
- Forearm protection
- Abrasion-resistant
- Breathable
- Water-resistant

FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Smooth**

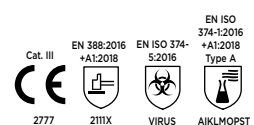
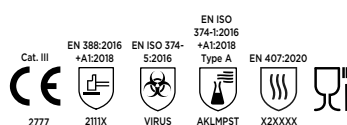
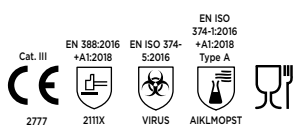
APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops

REF	SIZE	LENGTH
6784	10/L	350mm

REF	SIZE	LENGTH
6784R	10/L	350mm

REF	SIZE	LENGTH
6797	10/L	457mm



NEOPRENE



SHOWA 6797R

Rugged neoprene coating over breathable cotton liner, with rough surface grip and elbow length gauntlet

BENEFITS

- Acid-resistant
- Chemical-resistant
- Oil-resistant
- Forearm protection
- Abrasion-resistant
- Breathable
- Water-resistant

FEATURES

Liner: **Cotton**
Coating: **Fully-coated neoprene**
Grip: **Rough**

APPLICATIONS

- Acid-resistant
- Chemical-resistant
- Oil-resistant
- Forearm protection
- Abrasion-resistant
- Breathable
- Water-resistant

REF	SIZE	LENGTH
6797R	10/L	457mm



SHOWA N8

Premium neoprene coating with embossed finish for optimum grip and 45cm extended gauntlet

BENEFITS

- Easy donning and doffing
- Forearm protection
- Oil-resistant
- Chemical-resistant
- Abrasion-resistant
- Cut-resistant
- Robust grip
- Durable

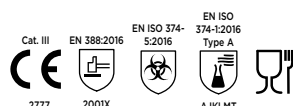
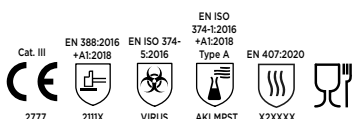
FEATURES

Liner: **Unlined**
Coating: **Fully-coated neoprene, Flocked**
Thickness: **0,76mm**
Grip: **Bisque**

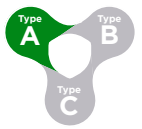
APPLICATIONS

- Coating preparation
- Painting & spray workshops
- Chemical spray and treatment
- Washing and cleaning

REF	SIZE	LENGTH
N8	9/M	457mm
N8	10/L	457mm
N8	11/XL	457mm



PVC



SHOWA 660ESD

Full PVC coating with extra PVC rough finish on the hand over cotton liner

BENEFITS

- Oil-resistant
- Extra Grip
- Abrasion-resistant
- Form-fitting
- Soft liner
- Anti-static
- Chemical-resistant

FEATURES

Liner: **Cotton flocked, Anti-static**
Coating: **Full PVC**
Grip: **Rough Ergonomic**

APPLICATIONS

- Chemical spray and treatment
- Install electrical wiring

REF	SIZE	LENGTH
660ESD	9/L	300 - 320mm
660ESD	10/XL	300 - 320mm

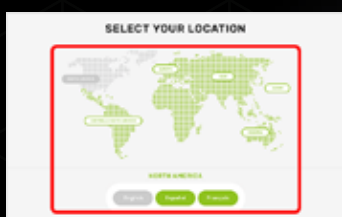


KNOW YOU'RE PROTECTED

FIND THE RIGHT GLOVE

ChemRest.com is the world's first free, comprehensive chemical resistant research guide for hand protection. It features a user-intuitive navigation, an enhanced chemical search and the ability to compare various gloves against each other. Around the world, safety professionals can benefit from.

HOW TO USE CHEMREST.COM



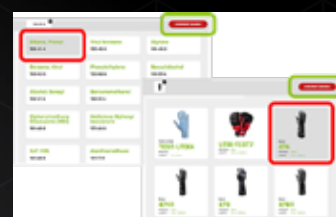
STEP 1

Visit ChemRest.com and select your location and language.



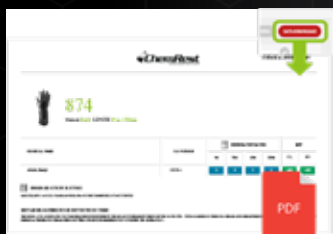
STEP 2

Search for either 1) the chemical name or CAS number you are interested in, or 2) the glove you are using.



STEP 3

Select the chemical, product, or CAS and hit search (multiple chemicals can be selected at once).



STEP 5

Register for your free account and download your chemical data.

STEP 4

See the results for the related chemical information and the breakthrough time that it will take the selected chemical to reach your hand through the glove.

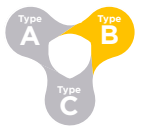


SHOWA'S CHEMICAL LABORATORY SERVICES

As a premium service, SHOWA offers a free comprehensive analysis of your chemical-resistant glove usage, for example to help with the latest EN 374 compliance requirements. At our in-house chemical laboratory, we are able to test any chemical or chemical mix you may be using. You receive a detailed report with glove recommendations based on your hazardous chemical usage. This program is designed to give the most cost-effective analysis and complete coverage of EN 374 requirements.

Find out more on SHOWAGroup.com





SHOWA
650

Full PVC coating with extra PVC rough finish on the hand over cotton liner

BENEFITS

- Seamless knit
- Soft liner
- Impermeable
- Water-resistant
- Abrasion-resistant
- Flexible
- Chemical-resistant
- Robust grip
- Forearm protection

FEATURES

Liner: **Cotton**
Coating: **Full PVC coating, extra coating over entire hand, Scalloped edge**
Grip: **Rough**
+ Ergonomic, Antibacterial, Anti-odor

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops

REF	SIZE	LENGTH
650	8/M	250-270mm
650	9/L	250-270mm
650	10/XL	250-270mm
650	11/XXL	250-270mm



SHOWA
660

Full PVC coating with extra finish over cotton liner

BENEFITS

- Seamless knit
- Forearm protection
- Chemical-resistant
- Increased Tactility
- Robust grip
- Water-resistant
- Durable
- Machine washable

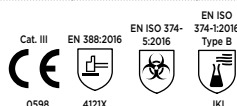
FEATURES

Liner: **Cotton**
Coating: **Triple-dipped PVC coating**
Grip: **Rough**
+ Ergonomic, Anti-odor

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops

REF	SIZE	LENGTH
660	8/M	300mm
660	9/L	300mm
660	10/XL	300mm
660	11/XXL	300mm



SHOWA
690

Full PVC coating with extra rough finish over cotton liner, extended bond sleeves, elasticated border and eyelet ventilation

BENEFITS

- Seamless knit
- Flexible
- Chemical-resistant
- Soft liner
- Full-arm protection
- Robust grip
- Water-resistant
- Impermeable

FEATURES

Liner: **Cotton**
Coating: **Full PVC Coating**
Grip: **Rough**
+ Extended Bonded Sleeve, Elasticated border

APPLICATIONS

- Chemical spray and treatment
- Handling plants and vegetables
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Washing and cleaning
- Pool /Pond Maintenance
- Public utility

REF	SIZE	LENGTH
690	8/M	660mm
690	9/L	660mm
690	10/XL	660mm



NITRILE



SHOWA 771

Full nitrile coating, with extra nitrile on the hand over cotton/polyester liner

BENEFITS

- Flexible
- Durable
- Abrasion-resistant
- Hydrocarbon-resistant
- Oil-resistant
- Robust grip
- Impermeable
- Forearm protection
- Soft liner

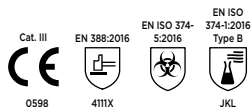
FEATURES

Liner: **Cotton, Scalloped edge**
Coating: **Full nitrile coating, extra coating over entire hand**
Thickness: **0,50mm**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops

REF	SIZE	LENGTH
771	8/M	300-320mm
771	9/L	300-320mm
771	10/XL	300-320mm



SHOWA 772

Full nitrile coating, with extra nitrile coating on the hand over cotton/polyester liner with extended sleeve and elasticated border

BENEFITS

- Hydrocarbon-resistant
- Impermeable
- Full-arm protection
- Chemical-resistant
- Water-resistant
- Oil-resistant
- Robust grip
- Abrasion-resistant
- Increased Tacitility
- Flexible

FEATURES

Liner: **Cotton/Polyester**
Coating: **Fully-coated nitrile, Double coated Nitrile on hand**
Thickness: **0,50mm**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Light Chemical Handling in Horticulture, Agriculture
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Pool /Pond Maintenance
- Water/Sewage treatment

REF	SIZE	LENGTH
772	8/M	650mm
772	9/L	650mm
772	10/XL	650mm



SHOWA NSK 26

Full nitrile coating with rough finish over cotton/polyester jersey liner with extended sleeve and elasticated border

BENEFITS

- Acid-resistant
- Oil-resistant
- Full-arm protection
- Robust grip
- Abrasion-resistant
- Water-resistant

FEATURES

Liner: **Cotton/Polyester**
Coating: **Nitrile**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Life sciences
- Water/Sewage treatment

REF	SIZE	LENGTH
NSK26	8/S	650mm
NSK26	9/M	650mm
NSK26	10/L	650mm
NSK26	11/XL	650mm





SHOWA
874

Unlined, unsupported butyl coating with smooth grip finish

BENEFITS

- Acid-resistant
- Impermeable
- Water-resistant

FEATURES

Liner: **Unlined**
Coating: **Butyl**
Thickness: **0,35mm**
Grip: **Smooth**
Rolled Cuff

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fracking
- Drilling
- Deck crew

REF	SIZE	LENGTH
874	7/S	350mm
874	8/M	350mm
874	9/L	350mm
874	10/XL	350mm
874	11/XXL	350mm



SHOWA
874R

Unlined, unsupported butyl coating with rough grip finish

BENEFITS

- Acid-resistant
- Impermeable
- Water-resistant

FEATURES

Liner: **Unlined**
Coating: **Butyl**
Thickness: **0,35mm**
Grip: **Rough**
Rolled Cuff

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Washing and cleaning
- Public utility
- Pipe Fitters
- Drilling
- Deck crew

REF	SIZE	LENGTH
874R	7/S	350mm
874R	8/M	350mm
874R	9/L	350mm
874R	10/XL	350mm
874R	11/XXL	350mm



SHOWA
878

Unlined, unsupported butyl coating with smooth grip finish

BENEFITS

- Acid-resistant
- Impermeable
- Water-resistant

FEATURES

Liner: **Unlined**
Coating: **Butyl**
Thickness: **0,70mm**
Grip: **Smooth**
Rolled Cuff

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops

REF	SIZE	LENGTH
878	8/M	350mm
878	9/L	350mm
878	10/XL	350mm
878	11/XXL	350mm

VITON



SHOWA

890

Unlined viton over butyl coating with long sleeves

BENEFITS

- Acid-resistant
- Hydrocarbon-resistant
- Impermeable
- Forearm protection

FEATURES

Liner: **Unlined**
 Coating: **Viton® over Butyl**
 Thickness: **0,70mm**
 Grip: **Smooth**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops
- Washing and cleaning
- Fracking
- Pipe Fitters

REF	SIZE	LENGTH
890	8/M	350mm
890	9/L	350mm
890	10/XL	350mm



SHOWA

892

Unlined viton over butyl coating

BENEFITS

- Acid-resistant
- Hydrocarbon-resistant
- Impermeable

FEATURES

Liner: **Unlined**
 Coating: **Viton® over Butyl**
 Thickness: **0,30mm**
 Grip: **Smooth**

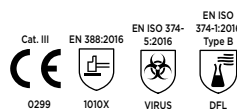
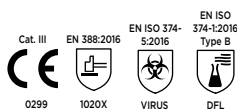
APPLICATIONS

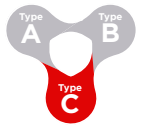
- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Fracking
- Drilling

REF	SIZE	LENGTH
892	7/S	300mm
892	8/M	300mm
892	9/L	300mm
892	10/XL	300mm
892	11/XXL	300mm



These chemical resistant gloves may look the same however, the SHOWA 890 provides more protection against aggressive chemicals compared to the 892 which offers more dexterity and tactility being a slightly thinner glove.





SHOWA

610

Full PVC coating, extra PVC coating on the entire hand over cotton liner

BENEFITS

- Seamless knit
- Flexible
- Chemical-resistant
- Impermeable
- Increased dexterity
- Water-resistant
- Durable
- Robust grip
- Forearm protection

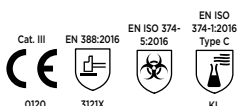
FEATURES

Liner: **Cotton**
 Coating: **Full PVC coating, extra coating over entire hand**
+ Ergonomic, Rough finish, Scalloped edge

APPLICATIONS

- Chemical spray and treatment
- Handling light chemicals in agriculture, horticulture
- Coating preparation
- Painting & spray workshops

REF	SIZE	LENGTH
610	8/M	250 - 270mm
610	9/L	250 - 270mm
610	10/XL	250 - 270mm
610	11/XXL	250 - 270mm



SHOWA

620

Full PVC coating, extra PVC coating on the entire hand over cotton liner, long cuffs

BENEFITS

- Acid-resistant
- Seamless knit
- Abrasion-resistant
- Extra Grip
- Water-resistant
- Chemical-resistant
- Strong
- Flexible
- Soft liner

FEATURES

Liner: **Cotton**
 Coating: **Full PVC coating, extra coating over entire hand**
 Grip: **Rough**
+ Ergonomic

APPLICATIONS

- Chemical spray and treatment
- Handling light chemicals in agriculture, horticulture
- Coating preparation
- Painting & spray workshops

REF	SIZE	LENGTH
620	8/M	300 - 320mm
620	9/L	300 - 320mm
620	10/XL	300 - 320mm
620	11/XXL	300 - 320mm



Permeation

The process by which a chemical moves through protective clothing materials at the molecular level. The passage of a liquid or gas through protective clothing consists of three steps; absorption, diffusion and desorption.

Penetration

The process by which a substance moves through a closure, seam or pinhole in protective clothing on a non-molecular level.

Breakthrough Time

The number of minutes from initial contact with a test chemical until it is first detected on the inside of the protective clothing measured using sensitive analytical testing. It is essentially the number of minutes until your skin is exposed inside the gloves or other protective clothing.

Degradation

The deleterious change in one or more physical properties of a protective clothing material due to contact with a chemical. Degradation changes may include delaminating, discoloration, hardening or loss of tensile strength.

Concentration

The amount or mass of a constituent divided by the total mass of a solution. Normally all Organic Solvents tested in this site are 100% pure. Acids and Caustics are solutions in water. In permeation testing of acids, in particular, the concentration will affect the breakthrough time. More concentrated acids will permeate sooner than dilutions.

PVC



SHOWA

640

Full PVC coating, extra PVC coating on the entire hand over cotton liner, with extended bonded sleeve, elasticated border and eyelet for ventilation and hanging

BENEFITS

- Acid-resistant
- Seamless knit
- Abrasion-resistant
- Extra Grip
- Water-resistant
- Chemical-resistant
- Strong
- Flexible
- Full-arm protection

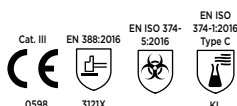
FEATURES

Liner: **Seamless Knit**
 Coating: **Full PVC coating, extra coating over entire hand**
 Grip: **Rough**
Liquid-resistant vinyl sleeve

APPLICATIONS

- Chemical spray and treatment
- Handling light chemicals in agriculture, horticulture
- Coating preparation
- Painting & spray workshops
- Laboratory, pharma & analysis

REF	SIZE	LENGTH
640	8/M	650mm
640	9/L	650mm
640	10/XL	650mm



The SHOWA 640 offers full hand and arm protection against acids, chemicals, solvents, and liquids.



The SHOWA 160R has a full PVC coating which seals and protects hands and forearms against chemicals, perfect for household applications.



SHOWA

160R

Unsupported PVC glove coating over viscose flocked liner

BENEFITS

- Lightweight
- Chemical-resistant
- Flexible
- Easy donning and doffing
- Forearm protection
- Impermeable
- Water-resistant

FEATURES

Liner: **Viscose flocked**
 Coating: **Unsupported, Full PVC Coating**
 Thickness: **0,30mm**
 Grip: **Embossed**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Maintenance
- Washing and cleaning

REF	SIZE	LENGTH
160R	8/M	300-310mm
160R	9/L	300-310mm
160R	10/XL	300-310mm





SHOWA

B0700R

Unsupported PVC glove

BENEFITS

- Form-fitting
- Easy donning and doffing
- Chemical-resistant
- Water-resistant
- Natural rubber

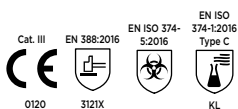
FEATURES

Liner: **Unsupported**
 Coating: **Full PVC Coating**
 Thickness: **0,30mm**
 Grip: **Embossed**

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Painting & spray workshops
- Integrated circuits
- Semiconductors

REF	SIZE	LENGTH
B0700R	7/S	300mm
B0700R	8/M	300mm
B0700R	9/L	300mm
B0700R	10/XL	300mm



SHOWA

B0710

Unsupported PVC glove with extended bonded sleeve, elasticated border and eyelet for ventilation and hanging

BENEFITS

- Chemical-resistant
- Full-arm protection
- Lightweight
- Impermeable
- Flexible
- Easy donning and doffing

FEATURES

Liner: **Unsupported**
 Coating: **Full PVC coating**
 Thickness: **0,30mm**
 Grip: **Embossed**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Pharmaceuticals and API
- Cleanrooms

REF	SIZE	LENGTH
B0170	7/S	600mm
B0170	8/M	600mm
B0170	9/L	600mm
B0170	10/XL	600mm



The SHOWA B0710 is 600mm in length compared to 300mm with the B0700R. Offering full arm protection. Perfect for all kinds of chemical spray and treatment.



CUT

To secure the handling of tools or objects with sharp edges or slippery surfaces, we make gloves and protective sleeves that not only resist cuts, but are also comfortable to wear, ensuring compliancy as well as safety. Whichever cut level you are looking for; SHOWA provides all from level A to F.

S-TEX

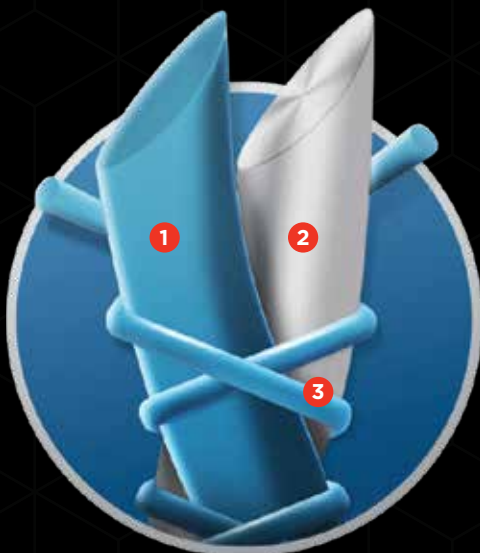
COMFORT AND SAFETY GO HAND IN HAND

At SHOWA we continuously work on improving the wearing experience. Ergonomic shape design, seamless knit liner, engineered fibre for flexibility and tactility are just some of the common features found in our gloves. By making our gloves as comfortable as possible without compromising on safety, we hope that our users will keep the gloves on at all times and stay safe in their workplace. This is particularly important in work that requires high cut protection, because accidents here can lead to serious injuries with grave consequences for both the user and the employer.

THE STORY OF HAGANE COIL®

Our first notable liner for protection against mechanical risks was seamless knit nylon liner in glove B0500, launched back in 1988. Ensuring both comfort and protection was our aim from the get-go. Sturdy nylon combined with world's first polyurethane palm coating offers both dexterity and good abrasion resistance for general purpose use. Encouraged by this success, over time, SHOWA integrated new fibres and fibre combinations specifically for achieving higher cut resistance. Since then our cut protection gloves have come a long way. High Performance Polyethylene (HPPE) fibres first featured in SHOWA 541 offer good cut resistance. Liners with integrated fibres such as the Kevlar® liner in GP-KV1 offer even better cut protection.

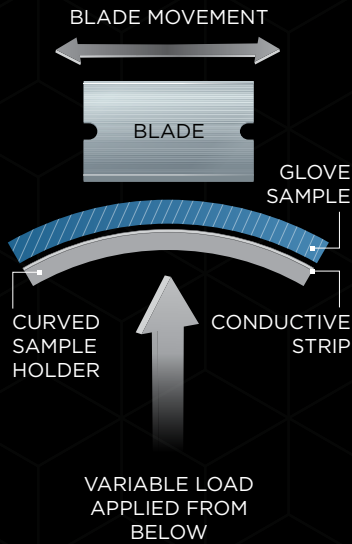
Development of new cut-resistant technology follows increasing demand for higher cut-resistant protection in work processes. While measuring the levels of cut resistance of different materials in the mesh of the glove, it became evident to our researchers that integration of stainless steel in liners could offer exceptional protection. The research led to development of the S-TEX KV3. The Hagane Coil® engineered liner was born.



STEEL PROTECTION

With Hagane Coil® technology we are able to provide high levels of cut resistance without sacrificing comfort. Hagane Coil® utilises a unique coiling technique that binds an attending yarn to a stainless steel core. The integrated steel core provides better protection than any natural or synthetic fibres, yet it is thin enough to allow flexibility and free movement as the hand bends and flexes. By utilising different composite yarns we can create different wearing experience. Soft yarns and stainless steel combinations offer more comfort and dexterity, while hard yarns and stainless steel offer superior protection and durability. It is a combination that offers maximum protection, comfort and performance.

- 1 Polyester / nylon
- 2 Stainless steel
- 3 Attending yarn (depending on glove)



The revised EN 388: 2016 standard for protective equipment against mechanical risks includes the international test method ISO 13997. This test method is widely used in the textile industry in order to gain a better understanding of the levels of protection. A glove sample is tested against a blade at a variable load in a TDM (Tomo Dynamo Meter) machine. The cut resistance is expressed as the cutting force at breakthrough in newtons (N)

At SHOWA, for gloves with high levels of protection we have already been using ISO 13997 as a compulsory test to show our customer a detailed and realistic view of the glove's cut protection performance.



S-TEX SERIES p. 44-47

To provide better individual protection against cuts, SHOWA has engineered several liners with Hagane Coil®. This has led to the forming of S-TEX Series, a line that features the best cut resistant gloves that we have to offer.



SHOWA
**S-TEX
KV3**

Hagane Coil® / Natural rubber
ISO 13 997: F
EN 388 Cut Level F



SHOWA
**S-TEX
581**

Hagane Coil® / Microporous foam Nitrile
ISO 13 997: E
EN 388 Cut Level E



SHOWA
**S-TEX
300**

Hagane Coil® / Natural rubber
ISO 13 997: D
EN 388 Cut Level D



SHOWA
**S-TEX
377**

Hagane Coil® / Foam nitrile over nitrile
ISO 13 997: D
EN 388 Cut Level D



SHOWA
**S-TEX
376**

Hagane Coil® / Foam nitrile over nitrile
ISO 13 997: D
EN 388 Cut Level D



SHOWA
**S-TEX
350**

Hagane Coil® / Nitrile
ISO 13 997: D
EN 388 Cut Level D



SHOWA
**S-TEX
541**

Hagane Coil® / Polyurethane
ISO 13 997: D
EN 388 Cut Level D

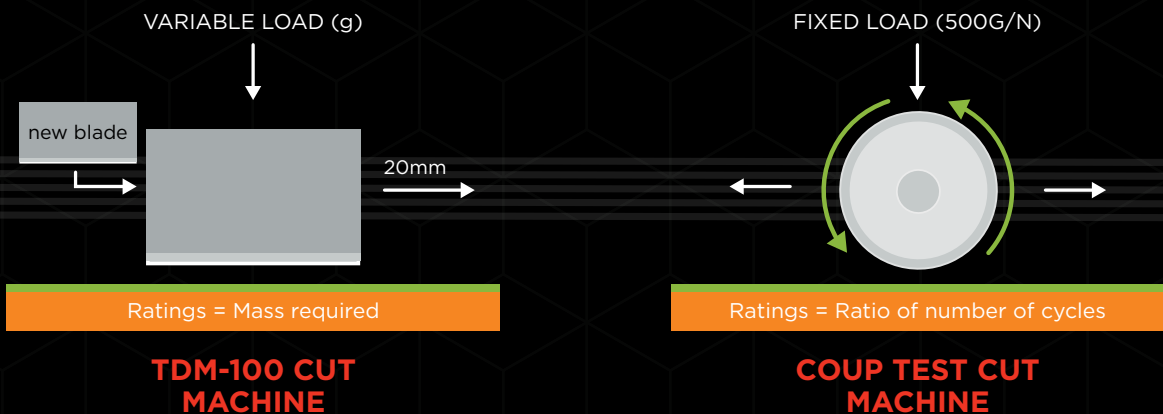
WHAT YOU NEED TO KNOW ABOUT THE NEW GLOBAL CUT STANDARDS

DIFFERENT TESTING METHODS

EN 388: 2016 (ISO 13997)

- Uses Coup Test as well as the TDM-100 cut machine (ISO 13997) to test cut level to accommodate limitations (dulling of the blade) in the Coup Test when testing strong cut-resistant fabrics
- Coup Test measures number of cycles required to cut through the glove
 - > Reporting is 1 - 5
- TDM-100 measures NEWTONS of force up to 30+N
 - > Reporting is A - F

THE NEW NORM STATES THAT IF BLADE DULLING OCCURS DURING THE COUP TEST, THE ISO 13997 TEST METHOD USING TDM-100 MUST BE PERFORMED.



The Tomodynamometer (TDM-100) is used to determine the load required to cut through a glove sample using a straight-edge blade that moves along a straight path within a distance of 20mm. The sample is cut 5x each at three different loads.

Using a circular blade that moves back- and-forth and under a fixed load of 500 grams, the Coup test machine measures the ratio of the number of cycles required to cut through the test sample vs. the reference material.

UNDERSTANDING YOUR CUT GLOVE

IDENTIFYING YOUR PROTECTION: REPORTING & MARKINGS

EN 388: 2016 (ISO 13997)

Abrasion: 0 - 4

Blade cut resistance (Coup Test): 0 - 5 /X

Tear: 0 - 4

Puncture: 0 - 4



A B C D E F

Cut Resistance - also ISO 13997(TDM-100): A - F/ X

Impact: P / blank

NEW

EN 388's testing method using only the Coup Test would at times result in two different gloves both having a cut level 5. However, after being tested with the ISO 13997 method where the TDM machine is used, the same gloves could score a cut level 5/C while the other an 5/E-a difference of up to 2000 grams of force! The new levels make it much easier to identify the different cut protection levels.



ACROSS THE SCALE, SHOWA HAS YOU COVERED

EN 388: 2016

N=GX0.00981

FORCE = MASS X 0.00981

ANSI VS. EN

ANSI/ISEA 105: measures

MASS using grams

EN 388: measures

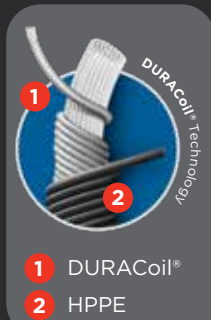
FORCE using newtons

LOW CUT LEVEL NEEDED		MEDIUM CUT LEVEL NEEDED	HIGH CUT LEVEL NEEDED		
A	B	C	D	E	F
 540D	 4561	 234	 8110	 8127	
 541	 546X 546	 234X	 S-TEX 581	 257	
 542	 546W	 S-TEX 541	 3416	 257X	
 545	 346	 S-TEX 300		 S-TEX KV3	
 KV660	 386	 S-TEX 350			
	 576	 S-TEX 376			
	 577	 S-TEX 377			
	 GP-KV1				
	 GP-KV2R				

DURACOIL® SERIES

MULTI-PURPOSE CUT PROTECTION FOR CUT LEVEL C/A3

The liner of every DURACOIL® glove is engineered by tightly wrapping multifilament polyester around a cut resistant fiber, then reinforcing it with High-Performance Polyethylene (HPPE). The soft properties of HPPE combined with the unique coating styles of each model provides ultra-comfortable multi-purpose gloves with durable cut resistant properties for precision handling.



EN 388: 2016 Tested to ISO 13997	A 2N-5N	B 5N-10N	C 10N-15N	D 15N-22N	E 22N-30N	F 30N+
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TYPICAL APPLICATIONS



- Light material handling
- Small parts assembly (without sharp edges)
- Cardboard packaging
- General purpose
- Shipping & receiving



- Aircraft engine building & assembly
- White goods manufacturing
- Carbon fiber handling
- Recycling component dismantling



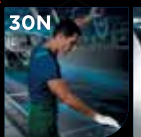
- Metal panels
- Small parts assembly (with sharp edges)
- Light automotive body assembly
- Sheet glass handling in production
- Electrical wire & component assembly



- Steel fixing & erecting
- Medium pressing oily metal parts
- Canning & bottling
- Food preparation & processing
- Automotive maintenance & repairs



- Cable trunking
- Food deboning
- Glass & window handling
- Heavy pressing oily metal parts
- Metal cut-off recycling



- Meat processing
- Heavy duty glass & bottling
- Pulp & paper
- Heavy metal sheet handling
- Canning



USE THIS SCALE TO FIND OUT WHICH CUT LEVEL YOU NEED FOR THE APPLICATION AT HAND!

INCREASE OF RISK SEVERITY

CUT LEVEL B



SHOWA

540D

Polyurethane coating on palm over HPPE liner

BENEFITS

- Cut-resistant
- Machine washable
- Seamless knit
- Lightweight
- Form-fitting

FEATURES

Liner: **Soft, HPPE reinforced**
 Coating: **Polyurethane coating**
Elasticated wrist cuff
+ Ergonomic

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering

REF	SIZE	LENGTH
540D	6/S	210 - 260mm
540D	7/M	210 - 260mm
540D	8/L	210 - 260mm
540D	9/XL	210 - 260mm
540D	10/XXL	210 - 260mm



SHOWA

541

Polyurethane coating on palm over HPPE liner

BENEFITS

- Seamless knit
- Cut-resistant
- Machine washable
- Extra Grip
- Lightweight

FEATURES

Liner: **HPPE reinforced**
 Coating: **Polyurethane coating**
 Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling heavy equipment
- Mechanical and engineering
- Intricate parts handling
- Component Assembly
- Canning
- Bottling

REF	SIZE	LENGTH
541	6/S	220 - 280mm
541	7/M	220 - 280mm
541	8/L	220 - 280mm
541	9/XL	220 - 280mm
541	10/XXL	220 - 280mm



SHOWA

542

Polyurethane coating on palm over HPPE liner

BENEFITS

- Seamless knit
- Flexible
- Form-fitting
- Breathable
- Abrasion-resistant
- Cut-resistant

FEATURES

Liner: **HPPE reinforced**
 Coating: **Polyurethane coating**
 Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Bottling
- Canning
- Component Assembly
- White goods

REF	SIZE	LENGTH
542	6/S	210 - 260mm
542	7/M	210 - 260mm
542	8/L	210 - 260mm
542	9/XL	210 - 260mm
542	10/XXL	210 - 260mm



CUT LEVEL B



SHOWA

545

Nitrile coating on palm over HPPE liner

BENEFITS

- Cut-resistant
- Seamless knit
- Extra Grip
- Flexible
- Breathable

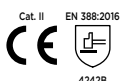
FEATURES

Liner: **HPPE reinforced**
 Coating: **Nitrile palm**
 Grip: **Rough**
+ Ergonomic, Seamless knit

APPLICATIONS

- Automotive repairs and maintenance
- Maintenance
- Component Assembly
- Dry parts assembly
- Carpentry

REF	SIZE	LENGTH
545	6/S	210 - 240mm
545	7/M	210 - 240mm
545	8/L	210 - 240mm
545	9/XL	210 - 240mm



SHOWA

DS45

Seamless coating on palm over HPPE liner

BENEFITS

- Full-arm protection
- Seamless knit
- Cut-resistant

FEATURES

Liner: **HPPE reinforced**
 Coating: **Uncoated**
 Grip: **Rough**
+ One-size-fits-all, Elasticated wrist cuff

APPLICATIONS

- Bottling

REF	SIZE	LENGTH
DS45	ONE SIZE	450mm



SHOWA

KV660

Full PVC coating, extra PVC coating on the entire hand over Kevlar® liner

BENEFITS

- Seamless knit
- Abrasion-resistant
- Durable
- Cut-resistant
- Oil-resistant
- Water-resistant
- Machine washable
- Chemical-resistant

FEATURES

Liner: **Liner made with Kevlar®**
 Coating: **Triple-dipped PVC**
 Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops
- Bottling
- HVAC
- Plumbing
- Guttering and drain pipe
- Drainage, piping

REF	SIZE	LENGTH
KV660	8/M	300 - 320mm
KV660	9/L	300 - 320mm
KV660	10/XL	300 - 320mm
KV660	11/XXL	300 - 320mm



[DURACOIL®]

THE REVISION OF THE PPE REGULATIONS IN 2016 RESULTED IN A MARKET-WIDE DOWNGRADE IN EN 388 AND ANSI 105 CUT LEVEL SCORES FOR RE-CERTIFIED PRODUCTS. ACROSS THE BOARD, GENERAL-PURPOSE GLOVES FOR MEDIUM-LOW RISKS DECREASED FROM CUT LEVEL 5-C/A3 TO 5-B/A2 AND UNDER.

CUT
RESISTANT
C/A3



Modern day users have access to enough information on the norm changes to take better responsibility for their cut protection needs. This created an increase in demand for more versatile solutions designed to meet safety and comfort requirements, at a lower price. On the other hand, research shows that many users still wear general purpose gloves with low cut resistance levels - the former EN 388 and ANSI cut 5 being B/ A2. This increases the risks of injuries and jeopardizes workers' safety; ultimately a "lose-lose" situation for the industry.

At SHOWA, we saw these changes as an opportunity to seriously evaluate our product offerings and asked ourselves: **Do our customers really want the cheapest hand-protection solution, or the best value for money?**

We believe the answer is value for money, so our R&D team developed our latest SHOWA technology, DURACOIL® - a cut resistant liner that increases the cut protection of multi-purpose gloves without compromising on comfort.

DURACOIL® is comprised of two words:

- ▶ **DURABLE** = the gloves are designed for maximum comfort, to be worn for extended periods of time
- ▶ **COIL** = the wrapping technique where fibers are coiled over the others in layers



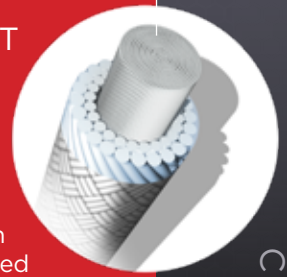
HOW DOES IT WORK?

The DURACoil® liner is engineered by tightly wrapping multifilament polyester around a cut resistant fiber, then reinforcing it with High-Performance Polyethylene (HPPE). The technique is very important to user comfort; if not done correctly, the fibers will irritate the skin. This therefore creates a premium lightweight yarn that offers comfort, durability, and increased cut protection.



WHAT IS MULTIFILAMENT YARN?

A high tenacity yarn that consists of many ultra-fine strands or filaments, wound together in an untwisted or unknotted way. These are smoother to touch, ultra-light and used for sturdy products, such as airbags, mooring lines for ships, and the strings of tennis rackets. Typical multifilament examples are Microfiber and Nanofiber.



IMAGINE ALL YOU CAN DO WITH A CONSOLIDATED CUT SERIES

SHOWA responds to market demands for a one-stop shop solution with a complete series of seven Cut C/A3 glove models, with SHOWA quality and service at a nominal price.

The new DURACoil® glove series caters to a wide range of needs and applications, offering a versatile new range that consolidates your glove inventory for optimized productivity and reduced costs.

By combining the fit, dexterity, and grip needed for multipurpose applications, with the upgraded DURACoil® cut-resistant liner, we ensure safe, dry, and comfortable hands. Whether performing tasks in dry, greasy, oily, or wet environments, there are no more excuses to not wear gloves.

	Non-Abrasive	Lacerations & Snags	Durability & Tactility	Grip Handling Performance	Wet & Oil Grip Comfort		
	Dry and non-abrasive environments, composite handling	Assembling sharp metal parts and components	Handling parts and assembly in dry environments	General maintenance and logistics	Handling parts and assembly in humid environments	Assembling and handling sharp-edged objects and parts in light greasy and oily environments	Assembling and handling sharp-edged objects and parts in heavy oily environments
546X Uncoated	☞	☞					
546 Polyurethane		☞	☞	☞			
546W White reinforced polyurethane		☞	☞	☞			
346 Natural rubber			☞	☞	☞		
386 Microporous nitrile		☞				☞	
576 3/4 nitrile, extra foam nitrile		☞					☞
577 Fully dipped nitrile, extra foam nitrile		☞					☞

CUT LEVEL C



SHOWA
DURACoil®
546

Polyurethane foam coating over engineered DURACoil® liner reinforced with HPPE

BENEFITS

- Seamless knit
- Cut-resistant
- Abrasion-resistant
- Breathable
- Flexible
- Form-fitting
- Increased dexterity
- Machine washable

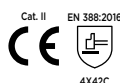
FEATURES

Liner: **HPPE reinforced, Engineered DURACoil**
Coating: **Polyurethane**
Elasticated wrist cuff
Grip: **Foam**
+ Ergonomic, Foam polyurethane palm dip

APPLICATIONS

- Intricate parts handling
- Light assembly
- Mechanical and engineering
- Automotive repairs and maintenance
- Bottling
- Handling glass and windows

REF	SIZE	LENGTH
546	6/S	220 - 270mm
546	7/M	220 - 270mm
546	8/L	220 - 270mm
546	9/XL	220 - 270mm
546	10/XXL	220 - 270mm



SHOWA
DURACoil®
546W

White reinforced polyurethane coating over engineered DURACoil® liner reinforced with HPPE

BENEFITS

- Seamless knit
- Cut-resistant
- Abrasion-resistant
- Breathable
- Flexible
- Form-fitting
- Increased dexterity
- Machine washable

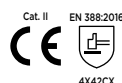
FEATURES

Liner: **HPPE reinforced, Engineered DURACoil**
Coating: **Polyurethane**
Elasticated wrist cuff
Grip: **Foam**
+ Ergonomic, Foam polyurethane palm dip

APPLICATIONS

- Intricate parts handling
- Light assembly
- Mechanical and engineering
- Automotive repairs and maintenance
- Bottling
- Handling glass and windows

REF	SIZE	LENGTH
546W	6/S	220 - 270mm
546W	7/M	220 - 270mm
546W	8/L	220 - 270mm
546W	9/XL	220 - 270mm
546W	10/XXL	220 - 270mm



SHOWA
DURACoil®
546X

Uncoated engineered DURACoil® liner reinforced with HPPE

BENEFITS

- Seamless knit
- Cut-resistant
- Abrasion-resistant
- Breathable
- Flexible
- Form-fitting
- Increased dexterity
- Machine washable

FEATURES

Liner: **HPPE reinforced, Engineered DURACoil**
Coating: **Uncoated**
Elasticated wrist cuff
+ Ergonomic

APPLICATIONS

- Intricate parts handling
- Life sciences
- Semiconductors
- White goods
- Component Assembly
- Quality control

REF	SIZE	LENGTH
546X	6/S	220 - 250mm
546X	7/M	220 - 250mm
546X	8/L	220 - 250mm
546X	9/XL	220 - 250mm



CUT LEVEL C



SHOWA
DURACoil®
346

Natural rubber coating over engineered DURACoil® liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Form-fitting
- Reusable
- Machine washable
- Flexible
- Increased dexterity
- Breathable
- Abrasion-resistant
- Seamless knit

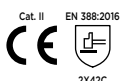
FEATURES

Liner: **HPPE reinforced, Engineered DURACoil**
Coating: **Embossed microporous nitrile, Palm-dipped natural rubber**
+ Ergonomic, Optimal liner design

APPLICATIONS

- Repair glass and windows
- Steel fixing
- Handling glass and windows
- Plate glass production
- Window manufacturing

REF	SIZE	LENGTH
346	6/S	220 - 260mm
346	7/M	220 - 260mm
346	8/L	220 - 260mm
346	9/XL	220 - 260mm



SHOWA
DURACoil®
386

Microporous nitrile coating over engineered DURACoil® liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Form-fitting
- Reusable
- Machine washable
- Extra Grip
- Flexible
- Increased dexterity
- Breathable
- Abrasion-resistant
- Seamless knit

FEATURES

Liner: **HPPE reinforced, Engineered DURACoil**
Coating: **Embossed microporous nitrile, Palm-dipped natural rubber**
+ Ergonomic, Optimal liner design

APPLICATIONS

- Intricate parts handling
- Brick laying
- Flashings and seals
- Maintenance
- Steel fixing
- Component Assembly

REF	SIZE	LENGTH
386	6/S	220 - 270mm
386	7/M	220 - 270mm
386	8/L	220 - 270mm
386	9/XL	220 - 270mm
386	10/XXL	220 - 270mm



The SHOWA 386 is suitable for all environments with nitrile coating providing extra grip. Whereas the SHOWA 346 is natural rubber coated and better suited to dry environments where no oil or grease is present.



Don't compromise on flexibility when seeking high durable cut-resistant gloves. Both models produced with our DURACoil technology.

CUT LEVEL C



SHOWA

576

Foamed nitrile on ¾ dipped nitrile coating over engineered DURACOIL® liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Abrasion-resistant
- Breathable
- Flexible
- Increased dexterity
- Robust grip
- Form-fitting
- Machine washable

FEATURES

Liner: **Engineered DURACOIL, HPPE reinforced**
 Coating: **¾ nitrile, Elasticated wrist cuff**
+ Ergonomic, Foam nitrile palm dip

APPLICATIONS

- Light assembly
- Mechanical and engineering
- Handling glass and windows
- Canning
- Mounting and dismantling

REF	SIZE	LENGTH
576	6/S	250 - 280mm
576	7/M	250 - 280mm
576	8/L	250 - 280mm
576	9/XL	250 - 280mm
576	10/XXL	250 - 280mm



SHOWA

577

Foamed nitrile on fully dipped nitrile coating over engineered DURACOIL® liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Abrasion-resistant
- Breathable
- Flexible
- Increased dexterity
- Robust grip
- Form-fitting
- Machine washable

FEATURES

Liner: **HPPE reinforced, Engineered DURACOIL liner**
 Coating: **Fully-coated nitrile, Elasticated wrist cuff**
+ Ergonomic, Foam nitrile palm dip

APPLICATIONS

- Mechanical and engineering
- Plumbing
- Canning
- Mounting and dismantling
- Handling heavy equipment

REF	SIZE	LENGTH
577	6/S	220 - 270mm
577	7/M	220 - 270mm
577	8/L	220 - 270mm
577	9/XL	220 - 270mm
577	10/XXL	220 - 270mm

Thanks to engineered DURACOIL wrapping technology, both the SHOWA 576 & 577 gloves protect the hands from a range of hazardous applications. With their nitrile coating delivering superior wet and dry grip.



The 576 is ¾ nitrile coated allowing breathability compared to the 577 which is fully coated for full protection.



CUT LEVEL C



SHOWA

GP-KV1

Natural rubber coating on palm over Kevlar® liner

BENEFITS

- Seamless knit
- Cut-resistant
- Flexible
- Durable
- Robust grip

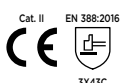
FEATURES

Liner: **Kevlar®**
 Coating: **Palm-dipped natural rubber**
 Grip: **Rough**
Low thermal conductivity
+ Elasticated wrist cuff

APPLICATIONS

- Handling heavy equipment
- Bottling
- Handling glass and windows
- Canning
- Police & defense

REF	SIZE	LENGTH
GP-KV1	7/S	230 - 270mm
GP-KV1	8/M	230 - 270mm
GP-KV1	9/L	230 - 270mm
GP-KV1	10/XL	230 - 270mm



SHOWA

GP-KV2R

Nitrile coating on palm over Kevlar® liner

BENEFITS

- Durable
- Breathable
- Increased Tactility
- Easy Movement

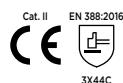
FEATURES

Liner: **Kevlar®**
 Coating: **Nitrile coating on palm**
 Grip: **Rough**
+ Seamless knit, Elasticated wrist cuff, Anti-odor

APPLICATIONS

- Handling heavy equipment
- Bottling
- Handling glass and windows
- Canning
- Police & defense

REF	SIZE	LENGTH
GP-KV2R	7/S	220-260mm
GP-KV2R	8/M	220-260mm
GP-KV2R	9/L	220-260mm
GP-KV2R	10/XL	220-260mm



Whilst the GP-KV1 is made with a palm-dipped natural rubber coating, and the GP-KV2R is made with a nitrile palm coating. Both models offer long lasting grip and have a seamless liner made with Kevlar®. The perfect gloves for handling heavy equipment, glass and windows.

CUT LEVEL C



DuPont™
Kevlar.

SHOWA

4561

Sponge nitrile palm coating over engineered liner with Kevlar®

BENEFITS

- Seamless knit
- Form-fitting
- Cut-resistant
- Abrasion-resistant
- Flame-resistant
- Breathable
- Robust grip
- Lightweight

FEATURES

Liner: **Kevlar®**

Coating: **Foam nitrile palm dip**

Grip: **Foam**

+ **Ergonomic, Elasticated wrist cuff**

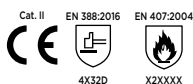
APPLICATIONS

- Automotive repairs and maintenance
- Light assembly
- Assembly dry parts
- Bottling
- Handling glass and windows
- White goods
- HVAC

REF	SIZE	LENGTH
4561	6/S	220 - 260mm
4561	7/M	220 - 260mm
4561	8/L	220 - 260mm
4561	9/XL	220 - 260mm
4561	10/XXL	220 - 260mm



Engineered to endure, SHOWA 4561 combines DuPont™ Kevlar® cut-resistance with Zorb-IT® oil grip to deliver exceptional cut, abrasion and flame resistance, without sacrificing comfort or grip. Utilizing SHOWA's renowned ergonomic design, 4561 naturally contours to your hand for maximum precision and dexterity.



CUT LEVEL D



SHOWA 234

Foam nitrile palm coating over spandex/engineered cut resistant liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Flexible
- Breathable
- Lightweight
- Increased dexterity
- Machine washable
- Seamless knit
- Heat-resistant
- Form-fitting
- Abrasion-resistant

FEATURES

Liner: **HPPE reinforced**
Coating: **Spandex,**
+ Ergonomic, Foam nitrile palm dip

APPLICATIONS

- Light assembly
- HVAC
- Maintenance
- Mechanical and engineering
- Repair glass and windows
- Steel fabrication
- Washing and cleaning
- Component Assembly

REF	SIZE	LENGTH
234	6/S	240 - 290mm
234	7/M	240 - 290mm
234	8/L	240 - 290mm
234	9/XL	240 - 290mm
234	10/XXL	240 - 290mm



SHOWA 234X

Uncoated spandex/engineered cut resistant liner reinforced with HPPE

BENEFITS

- Cut-resistant
- Flexible
- Breathable
- Lightweight
- Increased dexterity
- Machine washable
- Seamless knit
- Heat-resistant
- Form-fitting

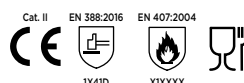
FEATURES

Liner: **HPPE reinforced**
Coating: **Spandex,**
+ Ergonomic, Foam nitrile palm dip

APPLICATIONS

- Beverage
- Food packing and handling
- Food Service/Food Prep
- Poultry, meat & seafood processing
- Canning

REF	SIZE	LENGTH
234X	6/S	254 - 314mm
234X	7/M	254 - 314mm
234X	8/L	254 - 314mm
234X	9/XL	254 - 314mm
234X	10/XXL	254 - 314mm



The SHOWA 234 has a foam nitrile coating perfect for the automotive industry with higher heat resistance. Whilst the SHOWA 234X is uncoated designed for use in "knife hand" applications in food processing.



234 is level 1 CONTACT heat certified
234X is level 1 CONTACT heat certified

CUT LEVEL D



SHOWA

STEX 541

Palm polyurethane coating over Hagane Coil® liner (stainless steel/polyester)

BENEFITS

- Cut-resistant
- Breathable
- Form-fitting
- Seamless knit
- Abrasion-resistant

FEATURES

Liner: **Hagane Coil®**
Coating: **Polyurethane**
Grip: **Rough**

+ Ergonomic, Hagane Coil® technology

APPLICATIONS

- Handling heavy equipment
- Mechanical and engineering
- Screw and nail setting
- Intricate parts handling
- Handling glass and windows
- Canning
- HVAC

REF	SIZE	LENGTH
S-TEX 541	6/S	220 - 270mm
S-TEX 541	7/M	220 - 270mm
S-TEX 541	8/L	220 - 270mm
S-TEX 541	9/XL	220 - 270mm
S-TEX 541	10/XXL	220 - 270mm



SHOWA

STEX 300

Palm natural rubber coating over Hagane Coil® liner (stainless steel/polyester)

BENEFITS

- Flexible
- Form-fitting
- Cut-resistant
- Increased dexterity
- Breathable
- Increased visibility

FEATURES

Liner: **Hagane Coil®**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

+ Ergonomic, Hagane Coil® technology, Fluorescent

APPLICATIONS

- Handling heavy equipment
- Bottling
- Handling glass and windows
- Window manufacturing
- Canning
- White goods
- HVAC

REF	SIZE	LENGTH
S-TEX 300	7/S	240 - 275mm
S-TEX 300	8/M	240 - 275mm
S-TEX 300	9/L	240 - 275mm
S-TEX 300	10/XL	240 - 275mm



SHOWA

STEX 350

Palm nitrile coating over Hagane Coil® liner (stainless steel/polyester)

BENEFITS

- Flexible
- Abrasion-resistant
- Form-fitting
- Cut-resistant
- Increased dexterity
- Breathable
- Increased visibility
- Seamless knit

FEATURES

Liner: **Hagane Coil®**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

+ Ergonomic, Hagane Coil® technology, Fluorescent

APPLICATIONS

- Handling heavy equipment
- Automotive repairs and maintenance
- Bottling
- Handling glass and windows
- Canning
- White goods
- Assembly dry parts
- HVAC

REF	SIZE	LENGTH
S-TEX 350	7/S	240 - 275mm
S-TEX 350	8/M	240 - 275mm
S-TEX 350	9/L	240 - 275mm
S-TEX 350	10/XL	240 - 275mm



CUT LEVEL D



SHOWA

STEX 376

Dual nitrile coating technology, ¾ nitrile dipped with extra nitrile foam coating on palm over Hagane Coil® liner (stainless steel/polyester)

BENEFITS

- Flexible
- Form-fitting
- Cut-resistant
- Increased dexterity
- Breathable
- Seamless knit
- Oil-resistant

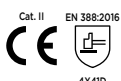
FEATURES

Liner: **Hagane Coil®**
 Coating: **¾ nitrile dipped with extra foam nitrile on palm**
 Grip: **Rough**
+ Ergonomic, Hagane Coil® technology

APPLICATIONS

- Light assembly
- Steel fabrication
- Steel fixing
- Handling heavy equipment
- Handling glass and windows
- Canning
- Bottling
- HVAC

REF	SIZE	LENGTH
S-TEX 376	6/S	220 - 270mm
S-TEX 376	7/M	220 - 270mm
S-TEX 376	8/L	220 - 270mm
S-TEX 376	9/XL	220 - 270mm
S-TEX 376	10/XXL	220 - 270mm



SHOWA

STEX 377

Double-dipped, fully coated nitrile, with an extra nitrile foam coating on palm over Hagane Coil® liner (stainless steel/polyester)

BENEFITS

- Cut-resistant
- Abrasion-resistant
- Oil-resistant
- Form-fitting
- Increased dexterity
- Water-resistant
- Seamless knit

FEATURES

Liner: **Hagane Coil®**
 Coating: **Fully coated, with an extra foamed nitrile finish on palm**
 Grip: **Foam**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Light assembly
- Steel fabrication
- Assembly dry and oily parts
- Handling glass and windows
- Canning
- Bottling
- Mounting and dismantling
- HVAC

REF	SIZE	LENGTH
S-TEX 377	6/S	220 - 270mm
S-TEX 377	7/M	220 - 270mm
S-TEX 377	8/L	220 - 270mm
S-TEX 377	9/XL	220 - 270mm
S-TEX 377	10/XXL	220 - 270mm



SHOWA

S-TEX 376SC

Dual nitrile coating technology, ¾ nitrile dipped with extra nitrile foam coating on palm over Hagane Coil® liner (stainless steel/polyester), and PVC/polyester safety cuff

BENEFITS

- Flexible
- Form-fitting
- Cut-resistant
- Increased dexterity
- Breathable
- Seamless knit
- Forearm protection

FEATURES

Liner: **Hagane Coil®**
 Coating: **Foam nitrile palm dip**
 Grip: **Foam**
+ Ergonomic, Hagane Coil® technology, Reinforced safety cuff

APPLICATIONS

- Mechanical and engineering
- Drainage, piping
- HVAC
- Window manufacturing

REF	SIZE	LENGTH
S-TEX 376SC	7/M	300 - 310mm
S-TEX 376SC	8/L	300 - 310mm
S-TEX 376SC	9/XL	300 - 310mm
S-TEX 376SC	10/XXL	300 - 310mm



SHOWA

S-TEX 377SC

Double-dipped, fully coated nitrile with extra nitrile foam coating on palm over Hagane Coil® liner (stainless steel/polyester), and PVC/polyester safety cuff

BENEFITS

- Cut-resistant
- Abrasion-resistant
- Form-fitting
- Increased dexterity
- Water-resistant
- Seamless knit
- Forearm protection

FEATURES

Liner: **Hagane Coil®**
 Coating: **Foam nitrile palm dip, fully-coated nitrile**
 Grip: **Foam**
+ Hagane Coil® technology, Reinforced safety cuff

APPLICATIONS

- Mechanical and engineering
- Drainage, piping
- HVAC
- Window manufacturing

REF	SIZE	LENGTH
S-TEX 377SC	7/M	300 - 310mm
S-TEX 377SC	8/L	300 - 310mm
S-TEX 377SC	9/XL	300 - 310mm
S-TEX 377SC	10/XXL	300 - 310mm



CUT LEVEL E



SHOWA

STEX 581

Microporous foamed nitrile palm coating over Hagane Coil® liner (stainless steel/polyester) reinforced with Kevlar®

BENEFITS

- Cut-resistant
- Extra Grip
- Abrasion-resistant
- Breathable
- Easy Movement
- Seamless knit
- Reusable
- Form-fitting

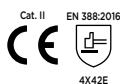
FEATURES

Liner: **Hagane Coil®, Kevlar®**
 Coating: **Microporous Nitrile Coating**
 Grip: **Embossed**
+ Ergonomic

APPLICATIONS

- Automotive repairs and maintenance
- Maintenance
- Light assembly
- Mechanical and engineering
- HVAC
- Install electrical wiring
- Screw and nail setting
- Steel fixing
- Handling glass and windows

REF	SIZE	LENGTH
S-TEX 581	6/S	235 - 270mm
S-TEX 581	7/M	235 - 270mm
S-TEX 581	8/L	235 - 270mm
S-TEX 581	9/XL	235 - 270mm
S-TEX 581	10/XXL	235 - 270mm



SHOWA

3416

Full neoprene coating over engineered cut protective liner

BENEFITS

- Cut-resistant
- Seamless knit
- Acid-resistant
- Flexible
- Extra Grip
- Increased dexterity

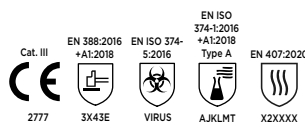
FEATURES

Liner: **Cut-resistance**
 Coating: **Fully-coated neoprene**
 Grip: **Rough**
+ Strong chemical resistance

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Handling glass and windows
- Window manufacturing
- Handling heavy equipment
- Drilling
- Deck crew

REF	SIZE	LENGTH
3416	8/S	355mm
3416	9/M	355mm
3416	10/L	355mm
3416	11/XL	355mm



SHOWA

8110

Uncoated HPPE yarn

BENEFITS

- Machine washable
- Cut-resistant
- Increased dexterity
- Breathable
- Form-fitting

FEATURES

Liner: **HPPE reinforced**
Seamless knit
 Coating: **Uncoated**

APPLICATIONS

- Beverage
- Food packing and handling
- Poultry, meat & seafood processing
- Bottling
- Handling glass and windows
- Canning
- HVAC

REF	SIZE	LENGTH
8110	6/XS	240 - 320mm
8110	7/S	240 - 320mm
8110	8/M	240 - 320mm
8110	9/L	240 - 320mm
8110	10/XL	240 - 320mm



CUT LEVEL F



SHOWA

8127

Uncoated HPPE yarn

BENEFITS

- Machine washable
- Cut-resistant
- Breathable
- Form-fitting

FEATURES

Liner: **Wire-free liner, HPPE reinforced**
Coating: **Uncoated**

APPLICATIONS

- Food packing and handling
- Poultry, meat & seafood processing
- Handling glass and windows
- Window manufacturing
- Canning
- Bottling
- HVAC

REF	SIZE	LENGTH
8127	6/XS	240 - 320mm
8127	7/S	240 - 320mm
8127	8/M	240 - 320mm
8127	9/L	240 - 320mm
8127	10/XL	240 - 320mm



SHOWA

257

Foam nitrile palm coating over spandex liner reinforced with stainless steel and aramid

BENEFITS

- Cut-resistant
- Increased dexterity
- Lightweight
- Breathable
- Machine washable
- Form-fitting
- Abrasion-resistant
- Touch screen compatible

FEATURES

Liner: **Spandex, Aramid knit**
Coating: **Foam nitrile palm dip**
Grip: **Foam**

APPLICATIONS

- Automotive repairs and maintenance
- Mechanical and engineering
- Metal Stamping
- Handling glass and windows
- Plate glass production
- Window manufacturing
- Component Assembly

REF	SIZE	LENGTH
257	6/S	241 - 279mm
257	7/M	241 - 279mm
257	8/L	241 - 279mm
257	9/XL	241 - 279mm
257	10/XXL	241 - 279mm



SHOWA

257X

Spandex liner reinforced with stainless steel and aramid

BENEFITS

- Cut-resistant
- Increased dexterity
- Lightweight
- Breathable
- Machine washable
- Form-fitting
- Abrasion-resistant
- Touch screen compatible

FEATURES

Liner: **Spandex, Aramid knit**
Coating: **Uncoated**

APPLICATIONS

- Automotive repairs and maintenance
- Mechanical and engineering
- Metal Stamping
- Handling glass and windows
- Plate glass production
- Window manufacturing
- Component Assembly

REF	SIZE	LENGTH
257	6/S	241 - 279mm
257	7/M	241 - 279mm
257	8/L	241 - 279mm
257	9/XL	241 - 279mm
257	10/XXL	241 - 279mm



SHOWA

STEX KV3

Palm natural rubber coating over Hagane Coil® liner (stainless steel/polyester) reinforced with Kevlar®

BENEFITS

- Flexible
- Form-fitting
- Cut-resistant
- Increased dexterity
- Breathable

FEATURES

Liner: **Kevlar®**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

APPLICATIONS

- Metal Stamping
- Demolition
- Repair glass and windows
- Steel fabrication
- Plate glass production
- HVAC
- Drilling
- Boiler maker

REF	SIZE	LENGTH
S-TEX KV3	7/S	240 - 275mm
S-TEX KV3	8/M	240 - 275mm
S-TEX KV3	9/L	240 - 275mm
S-TEX KV3	10/XL	240 - 275mm



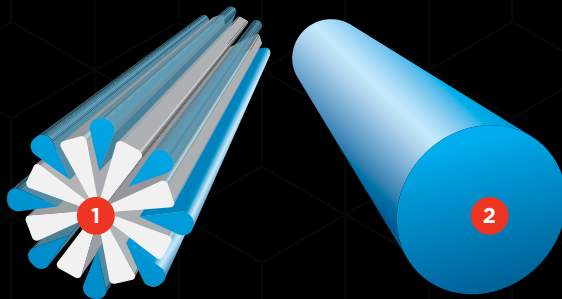


GENERAL PURPOSE

There are often many low-grade risks in the workplace that require a generalist protective approach. To protect the hand from common mechanical or chemical hazards while preserving mobility: we made our name by providing the very best in all-round, multi-purpose hand protection.

MICROFIBRE TECHNOLOGY®

At SHOWA we believe that comfort is as important as the protection, which is why we reduced the weight and improved the efficiency of our new model. In order to offer this premium combination, we engineered a microfibre fabric.



- 1 Microfibre
- 2 Cotton Fibre

WHAT IS MICROFIBRE?

Microfibre is a synthetic fabric with very small fibres or threads. The diameter of microfibre is about 20 times smaller than human hair. The most common types of microfibres are made from polyesters, polyamides or a combination of polyester, polyamide and polypropylene.

Microfibre is used to make mats, knits and weaves for apparel, upholstery, industrial filters and cleaning products. The shape, size and combinations of synthetic fibres are selected for specific characteristics, including softness, toughness, absorption, water repellency, electrostatics and filtering.

MICROFIBRE FACTS: HIGH PERFORMANCE AND LOW MAINTENANCE FABRICS

BREATHABLE FABRIC



COMFORT IS SIMILAR TO NATURAL FIBRES AND SOFT



ENHANCED DURABILITY



EASILY MAINTAINED AND CLEANED



RETAINS ORIGINAL SHAPE



HIGH-PERFORMANCE MOISTURE-WICKING ABILITY



LIGHTWEIGHT

Microfibre fabric is widely used in the clothing industry because of its absorption property. Athletes often use microfibre clothing, such as cycling jerseys, to improve their performances during competitions, as it provides a high capacity to absorb sweat while avoiding irritation.



TAKE COMFORT AND PROTECTION TO THE NEXT LEVEL

Professionals need optimized grip and maximum comfort when performing tasks that require extended wear and durability while keeping hands dry and cool at the same time.

For workers who move between tasks from general handling to intricate assembly, requiring high abrasion performance, dexterity, finger sensitivity and comfort, SHOWA 381 is the ideal multipurpose solution. It provides the lightest SHOWA microporous nitrile coated glove supported by a microfibre liner with an abrasion resistance of level 4.

Only fibres smaller than 1 denier can be called microfibrils. The 381 microfibre is 0.52 denier thick and the whole glove weighs only 19 grams.

Its comfort is further enhanced as breathability and moisture evaporation has increased by 20% compared to our standard offering.

HOW DOES IT WORK?

Firstly, the microporous nitrile coating in 381 grants exceptional grip while allowing warm air and moisture from inside to escape, thus keeping your hands dry.

Secondly, the microfibre liner absorbs perspiration and moisture quickly. Due to the cohesive properties of water, the water molecules are pulled along the thin fibres of the microfibre material. The large surface area created by numerous fibres allows microfibre materials to hold over 6 times their weight in liquid. At the same time the larger surface area and heat from the hand trigger faster evaporation, where drying time is 20% shorter than our standard gloves.

This results in cooler and dryer hands.



SHOWA
381
P.55



SHOWA
382
P.54

HEAT & SWEAT



BREATHEX FOAM TECHNOLOGY®

THE ULTIMATE OUTDOOR COMPANION

At SHOWA we believe that innovation makes sense when it actually contributes to something useful. Research shows the majority of workers use natural rubber palm coated gloves for construction, logistics and general handling - outdoor work environments where they are exposed to changeable weather conditions all year round.

During dry and hot temperatures, wearing gloves causes hand to sweat and creates perspiration inside the glove. In cold and wet seasons, users wear fully coated glove to keep hand clean, dry and warm. This means changing gloves depending on climate and outdoor conditions. For the same task, users may need 2 different types of glove, resulting double purchase and/or the wrong glove for each season.

**SO WE SAID: DRY, WET, WARM, COLD...
WHY DO WE ALWAYS HAVE TO CHOOSE?**



WHAT IS BREATHEX FOAM TECHNOLOGY®?

Based on these findings, **SHOWA designed the ultimate outdoor companion SHOWA 306 using BREATHEX FOAM TECHNOLOGY® - a revolutionary dual natural rubber coating technology that allows the glove to be both BREATHABLE and LIQUID RESISTANT.**

The combination of full foam natural rubber doubled with natural rubber coating on the palm is the only alternative solution for workers to be protected with one glove.

SHOWA 306 provides premium grip and dexterity with breathability in dry or wet environments, whatever the outdoor conditions are.

HOW DOES IT WORK?

- 1** Aerated natural rubber foam covers 13 gauge liner to allow warm air to escape, so your hands can breath and perspiration is reduced
- 2** Full foam natural rubber coating is impermeable, protecting from liquid penetrating the glove and therefore keeping your hands dry
- 3** Extra natural rubber coating on palm and fingers provides excellent grip and dexterity.

THE ULTIMATE WINTER COMPANION

After the success of SHOWA 306, we took all the great features of this glove and built upon them to create SHOWA 406. The new 406 has an added inner liner that is loop knitted, offering additional thermal insulation down to -30°C and a soft texture to the skin. For general handling in cold environment that requires abrasion, liquid, cold and wind resistance, SHOWA 406 is your ultimate WINTER companion.



RECOMMENDED APPLICATIONS



CONSTRUCTION



ASSEMBLY



GARDENING



AGRICULTURE



REFRIGERATION



WAREHOUSING
& DISTRIBUTION



DIY

HOW DOES IT WORK?

ONE SOLUTION FOR ALL PURPOSES,
WHATEVER THE OUTDOOR CONDITIONS ARE:

- 1 Aerated natural rubber foam for breathability and reduced perspiration
- 2 Impermeability protects from liquid penetration
- 3 Natural rubber coating offers high level of grip and abrasion
- 4 Soft comfort and premium fit thanks to SHOWA's hand shape technology
- 5 High level of flexibility due to engineered coating
- 6 Ergonomic design that replicates the natural curvature of human hand, thereby reducing hand fatigue.

ADDITIONAL BENEFITS 406

- Water-repellence surface combined with thermal insulated liner keep hands warm and dry enhancing more productive long work periods
- Aerated material reduces cold conduction and eliminates convection by keeping warm air inside
- Orange colour of 406 enhances safety in low light conditions and prevents from loss

SHOWA 306 (P.59) GENERAL PURPOSE

- Ergonomic
- Aerated natural rubber foam coating
- Dual natural rubber coating



SHOWA 406 (P.72) COLD PROTECTION

- Fluorescent
- Insulated
- Rough grip



NITRILE



SHOWA

265R

Palm nitrile coating over nylon liner

BENEFITS

- Breathable
- Form-fitting
- Seamless knit
- Hydrocarbon-resistant
- Abrasion-resistant
- Flexible

FEATURES

Liner: **10 gauge seamless knit nylon**
Coating: **Foam nitrile palm**
Grip: **Rough**

APPLICATIONS

- Automotive repairs and maintenance
- Intricate parts handling
- Light assembly
- Handling plants and vegetables
- Harvesting
- Planting & repotting
- Dry parts assembly
- Component Assembly

REF	SIZE	LENGTH
265R	6/S	240 - 270mm
265R	7/M	240 - 270mm
265R	8/L	240 - 270mm
265R	9/XL	240 - 270mm



SHOWA

370B

Palm nitrile coating over black nylon liner

BENEFITS

- Flexible
- Form-fitting
- Extra Grip
- Increased dexterity
- Seamless knit
- Machine washable

FEATURES

Liner: **Black Nylon**
Coating: **Nitrile palm**
Grip: **Rough**

APPLICATIONS

- Handling plants and vegetables
- Automotive repairs and maintenance
- Maintenance
- Intricate parts handling
- Light assembly
- Planting & repotting
- Harvesting
- Component Assembly
- Shipping/Receiving

REF	SIZE	LENGTH
370B	6/S	220 - 260mm
370B	7/M	220 - 260mm
370B	8/L	220 - 260mm
370B	9/XL	220 - 260mm
370B	10/XXL	220 - 260mm



SHOWA

370W

Palm nitrile coating over white nylon liner

BENEFITS

- Machine washable
- Seamless knit
- Form-fitting
- Flexible
- Extra Grip
- Breathable

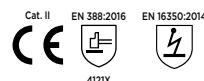
FEATURES

Liner: **Nylon**
Coating: **Nitrile palm**
Grip: **Rough**

APPLICATIONS

- Handling plants and vegetables
- Automotive repairs and maintenance
- Maintenance
- Light assembly
- Planting & repotting
- Harvesting
- Component Assembly
- Quality control

REF	SIZE	LENGTH
370W	5/XS	210 - 260mm
370W	6/S	210 - 260mm
370W	7/M	210 - 260mm
370W	8/L	210 - 260mm
370W	9/XL	210 - 260mm
370W	10/XXL	210 - 260mm



NITRILE



SHOWA

376R

1/2 dipped nitrile with extra foam nitrile coating on palm over polyester/nylon liner

BENEFITS

- Seamless knit
- Flexible
- Extra Grip
- Breathable

FEATURES

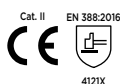
Liner: **13 gauge seamless knit Polyester/Nylon**
 Coating: **1/2 nitrile dipped with extra foam nitrile on palm**
 Grip: **Foam**

+ Scalloped edge, Elasticated wrist cuff

APPLICATIONS

- Mechanical and engineering
- Automotive repairs and maintenance
- Light assembly

REF	SIZE	LENGTH
376R	6/S	220 - 270mm
376R	7/M	220 - 270mm
376R	8/L	220 - 270mm
376R	9/XL	220 - 270mm
376R	10/XXL	220 - 270mm



SHOWA

377IP

3/4 dipped nitrile with extra nitrile foam coating over polyester/nylon liner reinforced with engineered anti-impact protection

BENEFITS

- Impact-resistant
- Natural rubber free
- Abrasion-resistant
- Seamless knit
- Durable

FEATURES

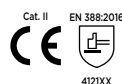
Liner: **13 gauge seamless knit Polyester/Nylon**
 Coating: **Foam nitrile palm coating 3/4 nitrile dipped**
 Grip: **Sponge**

+ Ergonomic, Fluorescent

APPLICATIONS

- Handling heavy equipment
- Signalers
- Metal Stamping
- Concreting
- Demolition
- Mounting and dismantling
- Component Assembly
- Automotive repairs and maintenance
- Drilling
- Deck crew

REF	SIZE	LENGTH
377-IP	7/M	265 - 280mm
377-IP	8/L	265 - 280mm
377-IP	9/XL	265 - 280mm
377-IP	10/XXL	265 - 280mm



SHOWA

377

3/4 dipped nitrile with extra nitrile foam coating finish over polyester/nylon liner

BENEFITS

- Flexible
- Form-fitting
- Breathable
- Seamless knit

FEATURES

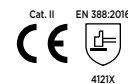
Liner: **13 gauge seamless knit Polyester/Nylon**
 Coating: **3/4 nitrile dipped**
 Grip: **Foam**

+ Elasticated wrist cuff

APPLICATIONS

- Automotive repairs and maintenance
- Maintenance
- Concreting
- Mortar
- Washing and cleaning
- Light assembly

REF	SIZE	LENGTH
377	6/S	250 - 280mm
377	7/M	250 - 280mm
377	8/L	250 - 280mm
377	9/XL	250 - 280mm
377	10/XXL	250 - 280mm



NITRILE



SHOWA

350R

Palm nitrile coating over polyester/cotton liner

BENEFITS

- Increased dexterity
- Flexible
- Extra Grip
- Seamless knit
- Lightweight

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Nitrile palm**
Grip: **Rough**

APPLICATIONS

- Handling plants and vegetables
- Automotive repairs and maintenance
- Maintenance
- Handling heavy equipment
- Light assembly

REF	SIZE	LENGTH
350R	7/S	220 - 260mm
350R	8/M	220 - 260mm
350R	9/L	220 - 260mm
350R	10/XL	220 - 260mm



SHOWA

380

Microporous nitrile coating on palm over nylon liner

BENEFITS

- Extra Grip
- Seamless knit
- Skin-friendly
- Breathable
- Increased dexterity
- Form-fitting

FEATURES

Liner: **13 gauge seamless knit Polyester/Nylon**
Coating: **Foam nitrile palm dip**
Grip: **Embossed**

APPLICATIONS

- Automotive repairs and maintenance
- Intricate parts handling
- Light assembly
- Shuttering
- White goods

REF	SIZE	LENGTH
380	6/S	220 - 260mm
380	7/M	220 - 260mm
380	8/L	220 - 260mm
380	9/XL	220 - 260mm



SHOWA

382

Microporous nitrile coating over engineered microfibre liner

BENEFITS

- Durable
- Robust grip
- Breathable
- Form-fitting
- Natural rubber free
- Abrasion-resistant
- Lightweight

FEATURES

Liner: **13 gauge seamless knit Microfibre**
Coating: **Microporous nitrile**
Grip: **Embossed**

APPLICATIONS

- Automotive repairs and maintenance
- Intricate parts handling
- Light assembly
- Mechanical and engineering

REF	SIZE	LENGTH
382	6/S	220 - 270mm
382	7/M	220 - 270mm
382	8/L	220 - 270mm
382	9/XL	220 - 270mm
382	10/XXL	220 - 270mm



NITRILE



SHOWA 381

Microporous nitrile coating over engineered microfibre liner

BENEFITS

- Abrasion-resistant
- Increased dexterity
- Breathable
- Flexible
- Increased sensitivity
- Form-fitting
- Natural rubber free
- Reusable

FEATURES

Liner: **13 gauge seamless knit engineered Microfibre**

Coating: **Microporous nitrile**

Grip: **Embossed**

APPLICATIONS

- Intricate parts handling
- Light assembly
- Mechanical and engineering
- Automotive repairs and maintenance
- Shuttering
- Dry parts assembly
- Component Assembly
- General Purpose
- Heavy Equipment Operation
- Supervising
- Tool Operation
- Transporting

REF	SIZE	LENGTH
381	6/S	220 - 270mm
381	7/M	220 - 270mm
381	8/L	220 - 270mm
381	9/XL	220 - 270mm
381	10/XXL	220 - 270mm



ENHANCED BREATHABILITY ⊕
BOOST VAPOUR PERMEATION



⊕
INCREASED GRIP
DISPERSES LIQUID AWAY



NITRILE



SHOWA

4400

Nitrile coating over cotton jersey liner

BENEFITS

- Flexible
- Increased sensitivity
- Abrasion-resistant
- Soft liner

FEATURES

Liner: **Cotton Jersey**
Coating: **Nitrile**
Grip: **Smooth**

APPLICATIONS

- Automotive repairs and maintenance
- Dry parts assembly
- Light assembly

REF	SIZE	LENGTH
4400	7/S	220 - 260mm
4400	8/M	220 - 260mm
4400	9/L	220 - 260mm
4400	10/XL	220 - 260mm



SHOWA

4400Y

¾ nitrile coating over cotton jersey liner

BENEFITS

- Flexible
- Increased sensitivity
- Abrasion-resistant
- Soft liner
- Increased visibility

FEATURES

Liner: **Cotton Jersey**
Coating: **¾ Nitrile**
Grip: **Smooth**

APPLICATIONS

- Automotive repairs and maintenance
- Dry parts assembly
- Light assembly

REF	SIZE	LENGTH
4400Y	7/S	220 - 260mm
4400Y	8/M	220 - 260mm
4400Y	9/L	220 - 260mm
4400Y	10/XL	220 - 260mm



SHOWA

7000

Full nitrile coating over cotton jersey liner with knit wrist

BENEFITS

- Abrasion-resistant
- Oil-resistant
- Water-resistant
- Robust grip
- Reusable
- Impermeable

FEATURES

Liner: **Cotton Jersey**
Coating: **Fully-coated nitrile**
Grip: **Smooth**

APPLICATIONS

- Handling heavy equipment
- Mounting and dismantling
- Washing and cleaning
- Public utility

REF	SIZE	LENGTH
7000	8/S	260mm
7000	9/M	260mm
7000	10/L	260mm





SHOWA

7066

¾ nitrile coating over cotton jersey liner with reinforced safety cuff

BENEFITS

- Abrasion-resistant
- Flexible
- Oil-resistant
- Breathable
- Impermeable

FEATURES

Liner: **Cotton Jersey**
Coating: **¾ nitrile palm**
Grip: **Smooth**

+ Reinforced safety cuff

APPLICATIONS

- Public utility
- Cutting roses and thorns
- Washing and cleaning
- Drainage, piping
- Guttering and drain pipe
- Plumbing
- Water/Sewage treatment

REF	SIZE	LENGTH
7066	8/S	240 - 260mm
7066	9/M	240 - 260mm
7066	10/L	240 - 260mm



SHOWA

7166

Nitrile coating over cotton jersey liner with reinforced safety cuff

BENEFITS

- Abrasion-resistant
- Flexible
- Impermeable

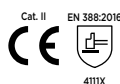
FEATURES

Liner: **Cotton Jersey**
Coating: **Nitrile**
Grip: **Smooth**

APPLICATIONS

- Chemical spray and treatment
- Cutting roses and thorns
- Public utility
- Washing and cleaning
- Drainage, piping
- Guttering and drain pipe
- Plumbing
- Water/Sewage treatment

REF	SIZE	LENGTH
7166	9/M	260mm
7166	10/L	260mm



SHOWA

7199NC

Full nitrile coating with smooth surface for increased durability

BENEFITS

- Abrasion-resistant
- Oil-resistant
- Flexible

FEATURES

Liner: **Cotton Jersey**
Coating: **Fully-coated nitrile**
Grip: **Smooth**

APPLICATIONS

- Chemical spray and treatment
- Cutting roses and thorns
- Public utility
- Washing and cleaning

REF	SIZE	LENGTH
7199NCR	10/L	260mm



NATURAL RUBBER



SHOWA

310 O

Natural rubber palm coating over polyester/cotton liner

BENEFITS

- Robust grip
- Form-fitting
- Breathable
- Increased dexterity
- Seamless knit
- Increased visibility

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling plants and vegetables
- Carpentry
- Driving machines
- Guttering and drain pipe
- Maintenance
- Masonry
- Planting & repotting
- Wood cutting
- Public utility
- Shipping/Receiving
- Handling heavy equipment

REF	SIZE	LENGTH
310 O	7/S	220 - 270mm
310 O	8/M	220 - 270mm
310 O	9/L	220 - 270mm
310 O	10/XL	220 - 270mm



SHOWA

310 G

Natural rubber palm coating over polyester/cotton liner

BENEFITS

- Robust grip
- Form-fitting
- Breathable
- Increased dexterity
- Seamless knit

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling plants and vegetables
- Carpentry
- Driving machines
- Guttering and drain pipe
- Maintenance
- Masonry
- Planting & repotting
- Wood cutting
- Public utility
- Shipping/Receiving
- Handling heavy equipment

REF	SIZE	LENGTH
310G	6/XS	230 - 260mm
310G	7/S	230 - 260mm
310G	8/M	230 - 260mm
310G	9/L	230 - 260mm
310G	10/XL	230 - 260mm
310G	11/XXL	230 - 260mm



SHOWA

310 B

Natural rubber palm coating over polyester/cotton liner

BENEFITS

- Robust grip
- Form-fitting
- Breathable
- Increased dexterity
- Seamless knit

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Palm-dipped natural rubber**
Grip: **Rough**

+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling plants and vegetables
- Carpentry
- Driving machines
- Guttering and drain pipe
- Maintenance
- Masonry
- Planting & repotting
- Wood cutting
- Public utility
- Shipping/Receiving
- Handling heavy equipment

REF	SIZE	LENGTH
310B	7/S	220 - 260mm
310B	8/M	220 - 260mm
310B	9/L	220 - 260mm
310B	10/XL	220 - 260mm





SHOWA

306

Full foam natural rubber coating doubled with natural rubber on palm over nylon/polyester liner

BENEFITS

- Skin-friendly
- Form-fitting
- Flexible
- Increased dexterity
- Breathable
- Water-resistant
- Extra Grip
- Seamless knit

FEATURES

Liner: **13 gauge seamless knit Nylon/Polyester**
 Coating: **Dual natural rubber coating, Aerated natural rubber foam coating**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling heavy equipment
- Signalers
- Brick laying
- Drainage, piping
- Guttering and drain pipe
- Insulation
- Plumbing
- Roofing application membranes
- Washing and cleaning
- Pool /Pond Maintenance

REF	SIZE	LENGTH
306	6/S	240 - 270mm
306	7/M	240 - 270mm
306	8/L	240 - 270mm
306	9/XL	240 - 270mm
306	10/XXL	240 - 270mm



NATURAL RUBBER



SHOWA
305

3/4 Natural rubber coating over polyester/cotton liner

BENEFITS

- Extra Grip
- Form-fitting
- Increased dexterity

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Natural rubber**
Grip: **Rough**
+ Knuckle coating, Elasticated wrist cuff

APPLICATIONS

- Construction
- Labouring
- Public sector
- Gardening

REF	SIZE	LENGTH
305	7/S	220 - 260mm
305	8/M	220 - 260mm
305	9/L	220 - 260mm
305	10/XL	220 - 260mm



SHOWA
317

Natural rubber palm coating over polyester liner

BENEFITS

- Seamless knit
- Form-fitting
- Extra Grip
- Breathable
- Increased visibility

FEATURES

Liner: **10 gauge seamless knit Polyester**
Coating: **Natural rubber**
Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff, Fluorescent

APPLICATIONS

- Handling heavy equipment
- Signalers
- Maintenance
- Slings & signalers
- Shipping/Receiving

REF	SIZE	LENGTH
317	7/S	220 - 260mm
317	8/M	220 - 260mm
317	9/L	220 - 260mm
317	10/XL	220 - 260mm



SHOWA
330

Natural rubber palm coating over polyester/cotton liner with reinforced coating at thumb crotch

BENEFITS

- Abrasion-resistant
- Extra Grip
- Breathable
- Seamless knit
- Skin-friendly

FEATURES

Liner: **10 gauge seamless knit Polyester/Cotton**
Coating: **Natural rubber**
Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Handling heavy equipment
- Automotive repairs and maintenance
- Maintenance
- Plastics Injection & Moulding
- Scaffolding installation
- Shipping/Receiving

REF	SIZE	LENGTH
330	7/S	230 - 270mm
330	8/M	230 - 270mm
330	9/L	230 - 270mm
330	10/XL	230 - 270mm



NATURAL RUBBER



SHOWA
341G

Natural rubber palm coating over grey nylon/polyester liner

BENEFITS

- Extra Grip
- Seamless knit
- Increased dexterity
- Breathable
- Flexible
- Form-fitting
- Skin-friendly

FEATURES

Liner: **13 gauge seamless knit Nylon/Polyester**
Coating: **Natural rubber palm**
Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Decoration
- Drainage, piping
- Flashings and seals
- Guttering and drain pipe
- Install electrical wiring
- Insulation
- Roofing application membranes

REF	SIZE	LENGTH
341G	6/S	210 - 260mm
341G	7/M	210 - 260mm
341G	8/L	210 - 260mm
341G	9/XL	210 - 260mm



SHOWA
341R

Natural rubber palm coating over red nylon/polyester liner

BENEFITS

- Extra Grip
- Seamless knit
- Increased dexterity
- Breathable
- Flexible
- Form-fitting
- Skin-friendly

FEATURES

Liner: **13 gauge seamless knit Nylon/Polyester**
Coating: **Natural rubber palm**
Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Decoration
- Drainage, piping
- Flashings and seals
- Guttering and drain pipe
- Install electrical wiring
- Insulation
- Roofing application membranes

REF	SIZE	LENGTH
341R	6/S	210 - 260mm
341R	7/M	210 - 260mm
341R	8/L	210 - 260mm
341R	9/XL	210 - 260mm



SHOWA
341P

Natural rubber palm coating over purple nylon/polyester liner

BENEFITS

- Extra Grip
- Seamless knit
- Increased dexterity
- Breathable
- Flexible
- Form-fitting
- Skin-friendly

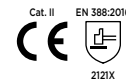
FEATURES

Liner: **13 gauge seamless knit Nylon/Polyester**
Coating: **Natural rubber palm**
Grip: **Rough**
+ Ergonomic, Elasticated wrist cuff

APPLICATIONS

- Decoration
- Drainage, piping
- Flashings and seals
- Guttering and drain pipe
- Install electrical wiring
- Insulation
- Roofing application membranes

REF	SIZE	LENGTH
341P	6/S	210 - 260mm
341P	7/M	210 - 260mm
341P	8/L	210 - 260mm
341P	9/XL	210 - 260mm



PVC

POLYURETHANE



SHOWA

160R

Unsupported PVC glove coating over viscose flocked liner

BENEFITS

- Lightweight
- Chemical-resistant
- Flexible
- Easy donning and doffing
- Forearm protection
- Impermeable
- Water-resistant

FEATURES

Liner: **Viscose flocked**
Coating: **PVC**
Thickness: **0,60mm**
Grip: **Embossed**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Maintenance
- Washing and cleaning

REF	SIZE	LENGTH
160R	8/M	300 - 310mm
160R	9/L	300 - 310mm
160R	10/XL	300 - 310mm



SHOWA

600

Full PVC coating, extra PVC coating on the entire hand over cotton liner

BENEFITS

- Impermeable
- Flexible
- Soft liner
- Chemical-resistant
- Water-resistant
- Robust grip
- Form-fitting
- Seamless knit

FEATURES

Liner: **Cotton**
Coating: **PVC**
Grip: **Rough**

APPLICATIONS

- Chemical spray and treatment
- Handling plants and vegetables
- Washing and cleaning
- Planting & repotting
- Harvesting
- Public utility

REF	SIZE	LENGTH
600	7/S	230 - 265mm
600	8/M	230 - 265mm
600	9/L	230 - 265mm
600	10/XL	230 - 265mm



SHOWA

Temres 281

Fully breathable micro-ventilated polyurethane coating with micro-roughened nitrile finish on fingertips over nylon liner

BENEFITS

- Breathable
- Water-resistant
- Extra Grip
- Flexible
- Seamless knit
- Form-fitting
- Skin-friendly
- Increased dexterity

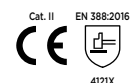
FEATURES

Liner: **Nylon**
Coating: **Polyurethane/Nitrile**
Grip: **Rough**
+ Ergonomic, Waterproof TEMRES® Technology

APPLICATIONS

- Handling plants and vegetables
- Automotive repairs and maintenance
- Maintenance
- Intricate parts handling
- Tile setting

REF	SIZE	LENGTH
281	7/S	270 - 290mm
281	8/M	270 - 290mm
281	9/L	270 - 290mm
281	10/XL	270 - 290mm
281	11/XXL	270 - 290mm





CHEMICAL | CUT | **GENERAL PURPOSE** | INSULATED | SINGLE USE

POLYURETHANE



SHOWA

B0500B

Polyurethane palm coating over black nylon liner

BENEFITS

- Form-fitting
- Breathable
- Seamless knit
- Lightweight
- Increased sensitivity
- Natural rubber free
- Abrasion-resistant

FEATURES

Liner: **13 gauge seamless Knit Nylon**
 Coating: **Polyurethane**
 Grip: **Smooth**
+ Elasticated wrist cuff

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Component Assembly
- Mounting and dismantling
- HVAC

REF	SIZE	LENGTH
B0500B	6/S	210 - 265mm
B0500B	7/M	210 - 265mm
B0500B	8/L	210 - 265mm
B0500B	9/XL	210 - 265mm
B0500B	10/XXL	210 - 265mm



SHOWA

B0500W

Polyurethane palm coating over white nylon liner

BENEFITS

- Form-fitting
- Breathable
- Seamless knit
- Lightweight
- Increased sensitivity
- Natural rubber free

FEATURES

Liner: **13 gauge seamless Knit Nylon**
 Coating: **Polyurethane**
 Grip: **Smooth**
+ Elasticated wrist cuff

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Automotive repairs and maintenance
- Cleanrooms
- Integrated circuits
- Component Assembly

REF	SIZE	LENGTH
B0500W	6/S	210 - 265mm
B0500W	7/M	210 - 265mm
B0500W	8/L	210 - 265mm
B0500W	9/XL	210 - 265mm
B0500W	10/XXL	210 - 265mm



SHOWA

B0502W

Polyurethane palm coating over white nylon/polyester liner

BENEFITS

- Lightweight
- Increased sensitivity
- Breathable
- Oil-resistant
- Abrasion-resistant
- Seamless knit
- Natural rubber free
- Flexible

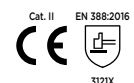
FEATURES

Liner: **13 gauge seamless Knit Nylon/Polyester**
 Coating: **Polyurethane**
 Grip: **Smooth**
+ Ergonomic

APPLICATIONS

- Mechanical and engineering
- Automotive repairs and maintenance
- Intricate parts handling
- Cleanrooms
- Integrated circuits
- Component Assembly
- Mounting and dismantling

REF	SIZE	LENGTH
B0502W	6/S	210 - 265mm
B0502W	7/M	210 - 265mm
B0502W	8/L	210 - 265mm
B0502W	9/XL	210 - 265mm
B0502W	10/XXL	210 - 265mm



POLYURETHANE



SHOWA

B0600

Polyurethane fingertips coating over nylon liner

BENEFITS

- Form-fitting
- Breathable
- Seamless knit
- Lightweight
- Increased sensitivity
- Natural rubber free

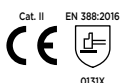
FEATURES

Liner: **Seamless Knit Nylon**
 Coating: **Polyurethane**
 Grip: **Smooth**
+ Elasticated wrist cuff

APPLICATIONS

- Mechanical and engineering
- Automotive repairs and maintenance
- Intricate parts handling
- Integrated circuits
- Semiconductors
- Cleanrooms

REF	SIZE	LENGTH
B0600	6/S	185 - 225 mm
B0600	7/M	185 - 225 mm
B0600	8/L	185 - 225 mm
B0600	9/XL	185 - 225 mm



SHOWA

B0605

Polyurethane fingertips coating over nylon liner with long cuff (+50mm)

BENEFITS

- Seamless knit
- Flexible
- Form-fitting

FEATURES

Liner: **Seamless Knit Nylon**
 Coating: **Polyurethane**
+ Elasticated wrist cuff

APPLICATIONS

- Mechanical and engineering
- Automotive repairs and maintenance
- Integrated circuits
- Intricate parts handling
- Microelectronic
- Semiconductors
- Cleanrooms
- Quality control

REF	SIZE	LENGTH
B0605	6/S	235 - 295mm
B0605	7/M	235 - 295mm
B0605	8/L	235 - 295mm
B0605	9/XL	235 - 295mm
B0605	10/XXL	235 - 295mm



SHOWA

B0610

Uncoated nylon liner

BENEFITS

- Seamless knit
- Flexible
- Form-fitting

FEATURES

Liner: **Seamless Knit Nylon**
 Coating: **Uncoated**
+ Elasticated wrist cuff

APPLICATIONS

- Planting & repotting
- Handling plants and vegetables
- Wood cutting
- Public utility

REF	SIZE	LENGTH
B0610	6/S	170 - 210mm
B0610	7/M	170 - 210mm
B0610	8/L	170 - 210mm
B0610	9/XL	170 - 210mm



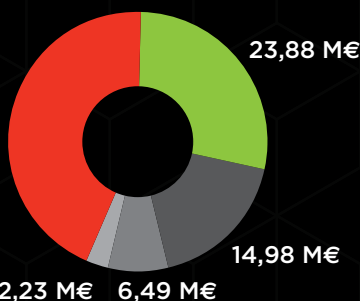
HAND PROTECTION IN THE CONSTRUCTION INDUSTRY

FACTS AND FIGURES

Even though official figures show there has been a drop in workplace accidents in the building trade, they are still more frequent than in other industries. Most injuries within the construction environment involve the hands and/or arms, and serious accidents or fatalities have a deep social and economic impact on everyone involved: the company, the employer and the employee. **It is vital to prevent these from happening in the first place.**

Every year, serious and fatal injuries to workers have a devastating social and emotional impact on victims, their families, their colleagues and the company's management. It makes sense for employees to protect themselves at all times, no matter how small the risk. As we all know, it's better to be safe than sorry. Data from France is used for the graphs below; the figures are in fact similar in all main industrialized countries.

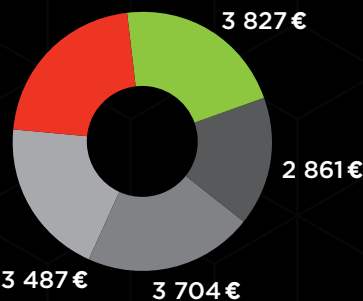
37,45 M€



FINANCIAL COST OF WORKPLACE ACCIDENTS

(source: Carsat, France)

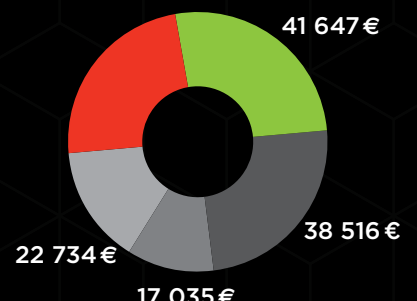
3 841 €



AVERAGE COST OF LOST-TIME ACCIDENTS (INCLUDING WORK-RELATED ILL HEALTH)

(source: Carsat, France)

37 297 €



AVERAGE COST OF OCCUPATIONAL ACCIDENTS CAUSING PERMANENT DISABILITY (INCLUDING WORK-RELATED ILL HEALTH)

(source: Carsat, France)

- Building trade
- Transport, water, gas, electricity, press, communications
- Metallurgy
- Wood, paper, textiles, clothing
- Chemicals, rubber

ON TOP OF THESE FACTS AND FIGURES, LET'S NOT FORGET THERE MAY BE OTHER DIRECT AND INDIRECT COSTS THAT ARE OFTEN UNDERESTIMATED, OR EVEN UNKNOWN.

LABOUR COSTS

- Working time lost by the victim and other employees
- Medical visits after the accident and first aid
- Replacing the employee, including recruitment and training

COSTS OF MATERIAL LOSSES

- Damage caused to equipment, tools and work in progress
- The use of first aid medication supplies
- Administrative costs
- The time required for enquiries into the causes of the accident

PRODUCTION COSTS

- Time off work and loss of earnings
- Drops in productivity

COMMERCIAL COSTS

- Delays in delivery with possible late delivery fines
- Downturns in the quality of work
- Deterioration of the company's image
- Increases in insurance premiums

OTHER MISCELLANEOUS COSTS

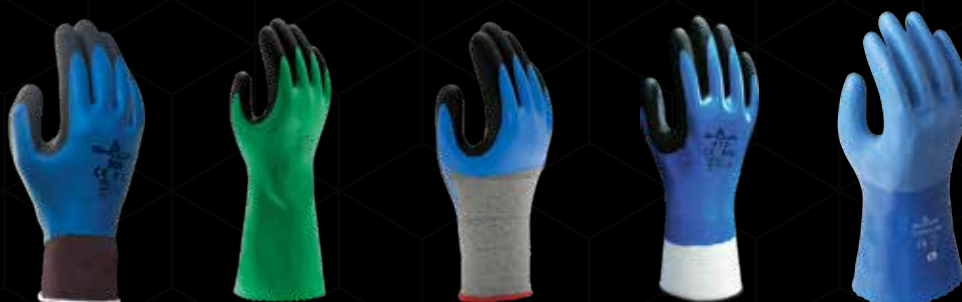
- Fixed costs that are incurred even when there is a stoppage in work
- Transport for the victim
- Any possible legal action
- Punitive costs in the event of legal infringements
- Cost of expertise



BREAKDOWN OF OCCUPATIONAL ACCIDENTS LEADING TO PERMANENT DISABILITY ACCORDING TO THE AREA OF INJURY
(France data)

A COMPLETE OPTIMISED RANGE

With the multitude of different public sector and building jobs in mind, SHOWA now offers a range of gloves created entirely around the different applications and needs around each trade of the construction industry. To make it easier to choose the correct glove for the type of application, we have identified a range of trade-specific gloves grouped into 5 main categories of no more than 15 models. This ensures the number of reference materials is optimised and purchase costs are reduced to a minimum, with gloves that meet the specific needs of each different type of work. Grouped by work type, they consider three key factors: work environment, the different hand movements to be performed and the types of protection required.



GENERAL HANDLING



381 306 330 341 377



PUBLIC WORK

Driving machines	•	•			
Maintenance		•			•
Slings/signaler					
Demolition		•			



FOUNDATIONS /STRUCTURE

Steel fixing					
Concreting					•
Steel erector					
Shuttering	•	•			
Pouring concrete					•
Mechanical and engineering	•		•		



SCAFFOLDER

Scaffolding installation			•		
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MASON

Laying brick		•	•		
Cementing					•
Mortar					•



ROOFER & CARPENTER

Guttering and drain pipe		•		•	
Roofing application membranes		•		•	
Insulation	•	•		•	
Flashings and seals		•		•	
Internal fixing		•		•	
Wood joinery		•		•	



GLASS AND GLAZING

Fixing glass and windows					
Handling glass and windows					



PLUMBER - HEATER

Plumbing	•			•	
Drainage, piping				•	
Heating, ventilation	•				



ELECTRICIAN

Installing electrical wiring/components				•	
Using test equipment				•	
Installing trunking				•	



TILER

Setting tile					
Grouting/cleaning off					



PAINTER & DECORATOR /PLASTERER

Painting					
Washing/cleaning					
Sanding					•
Setting screw and nail	•			•	
Skirting placement	•			•	
Coating preparation	•				
Plastering					•
Decoration				•	



INSULATED

When working in extreme environments, find the right protection for you whether it is cold protection against blisters, slipping and undercooling. Or preventing burns to the hand and irreparable scar tissue with our heat resistant gloves.

COLD PROTECTION

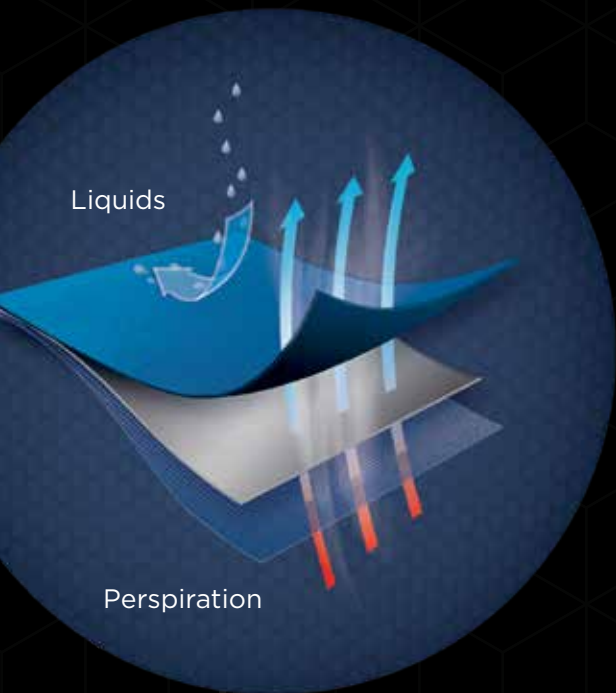
The human body is in a comfortable situation when the heart is beating at a regular speed. This happens at a mean blood temperature of 37°C. Using the right cold protection equipment is not a luxury. It will protect the wearer against cold blisters, slipping and under-cooling, while providing a satisfying level of comfort and protection.

HEAT PROTECTION

Burns to the hand and forearm can result into irreparable scar tissue. Prevent pain and scars by protecting yourself with heat resistant gloves. Insulated gloves protect up to 260°C. SHOWA also offers protection to Arc Flash with SHOWA 240.

- 72. NATURAL RUBBER
- 72. PVC
- 74. NITRILE
- 74. POLYURETHANE

- 75. NEOPRENE
- 75. SPONGE NEOPRENE



TEMRES®

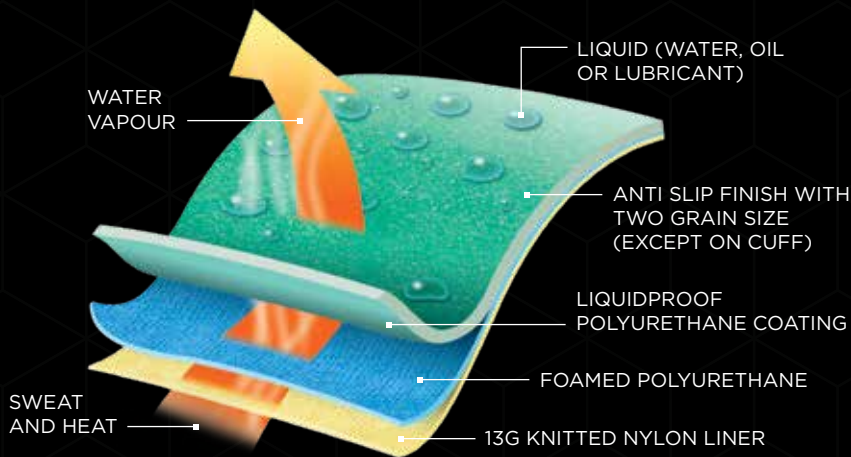
TEMRES® TECHNOLOGY ENABLES OUR GLOVES TO BE BREATHABLE AND WATERPROOF, A COMBINATION OF THE APPARENTLY OPPOSING BUT IMPORTANT FEATURES OFFERED IN A SINGLE GLOVE.

The idea behind TEMRES® came from a challenge faced by Japanese workers who wanted to keep their hands free from sweat while working in wet environments. For many workers in the Japanese fishing industry for example, it was difficult to keep dry hands while at the same time working in wet and oily conditions. However, it is even more difficult to achieve good breathability in fully coated gloves while maintaining oil or water resistance.

As a specialist glove manufacturer SHOWA took on this challenge, and developed the first TEMRES® 280 glove 19 years ago. The name TEMRES® comes from a combination of the Japanese words **Te**, which means “hand”, and **Murezu** meaning “no humidity”. TEMRES® glove was revolutionary at the time of its launch and its uniqueness and benefits have gradually become recognized in the market. Over the years we have perfected the technology and in 2005 the new TEMRES® 281 was launched. It features added anti-slip grip and a design for easier donning and doffing.



Use your smartphone camera to activate



HOW DOES IT WORK?

The concept in TEMRES® technology comes from differences in physical properties of liquid water and water vapour. Physical properties of water in liquid state, such as cohesion and lower molecular energy, means that water droplets typically range in size between 100 µm to 3,000 µm. On the other hand, the higher energy of water molecules in vapour means they are excited and moving freely. The size of water molecule is about 0.0003 µm. Our engineers used this significant size difference to create two main membranes in the glove that enable the TEMRES® effect: one for its breathability and one for water resistance.

Concretely, one membrane is made from porous foamed polyurethane, helping moisture come out easily and allowing the hand to dry promptly. The other one is the outermost layer made from hydrophilic polymer, which is permeable to moisture but not to water. The difference in concentration of water molecules and temperature leads to water vapour transfer from inside the glove to outside. This is the essential mechanism applied to TEMRES® gloves. The breathability allows hands to stay dry. At the same time its waterproof property still protects the hands from water and liquids.



TEMRES® FAMILY

We are planning on expanding the TEMRES® series and applying and bringing the benefits of this technology to other applications, keeping our users hands dry.



SHOWA

TEMRES®
281

P.62



SHOWA

TEMRES®
282

WINTER VERSION
P.74

COLD PROTECTION

NATURAL RUBBER

PVC



SHOWA

451

Natural rubber palm coating over acrylic/cotton/polyester liner

BENEFITS

- Thermal insulation
- Flexible
- Breathable
- Extra Grip
- Seamless knit
- Skin-friendly
- Abrasion-resistant

FEATURES

Liner: **Seamless knit Acrylic/Cotton/Polyester**
Coating: **Natural Rubber Palm**
Grip: **Rough**

+ **Elasticated wrist cuff, Ergonomic**

APPLICATIONS

- Signalers
- Brick laying
- Carpentry
- Driving machines
- Masonry
- Demolition
- Shipping/Receiving

REF	SIZE	LENGTH
451	7/S	220 - 270mm
451	8/M	220 - 270mm
451	9/L	220 - 270mm
451	10/XL	220 - 270mm



SHOWA

406

Full foam natural rubber coating doubled with natural rubber on palm coating over nylon outer liner with insulated acrylic/nylon inner liner

BENEFITS

- Water-resistant
- Increased visibility
- Protects up to -30°C
- Breathable
- Abrasion-resistant
- Thermal insulation

FEATURES

Liner: **Seamless knit nylon/ Insulated Acrylic, nylon**
Coating: **Dual natural rubber**
Grip: **Rough**

+ **Fluorescent**

APPLICATIONS

- Brick laying
- Plumbing
- Washing and cleaning
- Pool /Pond Maintenance
- Shipping/Receiving

REF	SIZE	LENGTH
406	7/M	250 - 295mm
406	8/L	250 - 295mm
406	9/XL	250 - 295mm
406	10/XXL	250 - 295mm



SHOWA

460

Full PVC coating, extra coating on entire hand over cotton/ fixed acrylic liner

BENEFITS

- Protects up to -20°C
- Oil-resistant
- Chemical-resistant
- Increased dexterity
- Extra Grip
- Water-resistant
- Flexible
- Impermeable

FEATURES

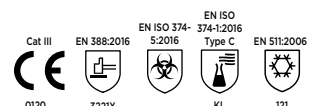
Liner: **Seamless knit fixed acrylic lining/cotton knit**
Coating: **PVC**
Thickness: **1,10mm**
Grip: **Rough**

+ **Forearm protection**

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops

REF	SIZE	LENGTH
460	8/M	300mm
460	9/L	300mm
460	10/XL	300mm



COLD PROTECTION



SHOWA
465

Removeable cotton /acrylic liner with full PVC coating

BENEFITS

- Flexible
- Soft liner
- Durable
- Chemical-resistant
- Cold Resistant
- Impermeable
- Forearm protection
- Seamless knit

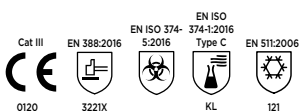
FEATURES

Liner: **Seamless cotton knit with removable acrylic liner**
Coating: **PVC**
Thickness: **1,10mm**
Grip: **Rough**
+ Insulated, Ergonomic

APPLICATIONS

- Maritime sector
- Petrochemical
- Transport
- Logistics
- Fishing

REF	SIZE	LENGTH
465	8/M	300mm
465	9/L	300mm
465	10/XL	300mm



SHOWA
490

Full PVC coating, extra coating on entire hand over cotton/ fixed acrylic liner

BENEFITS

- Chemical-resistant
- Oil-resistant
- Protects up to -20°C
- Flexible
- Thermal insulation
- Form-fitting
- Skin-friendly
- Extra Grip

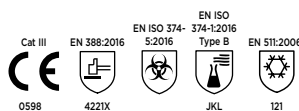
FEATURES

Liner: **Seamless cotton knit fixed acrylic lining/cotton knit**
Coating: **PVC**
Grip: **Rough**
+ Insulated, Ergonomic, Forearm protection

APPLICATIONS

- Chemical spray and treatment
- Washing and cleaning

REF	SIZE	LENGTH
490	8/M	300mm
490	9/L	300mm
490	10/XL	300mm



SHOWA
495

Full PVC coating, extra coating over entire hand on cotton/ removeable acrylic liner

BENEFITS

- Seamless knit
- Chemical-resistant
- Flexible
- Protects up to -20°C
- Thermal insulation
- Oil-resistant

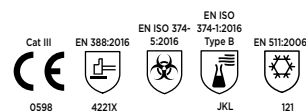
FEATURES

Liner: **Seamless cotton knit with removable acrylic liner**
Coating: **PVC**
Grip: **Rough**
+ Insulated, Ergonomic, Forearm protection

APPLICATIONS

- Chemical spray and treatment
- Washing and cleaning
- Transporting
- Light Chemical Handling in Horticulture, Agriculture

REF	SIZE	LENGTH
495	8/M	300mm
495	9/L	300mm
495	10/XL	300mm



COLD PROTECTION

NITRILE



SHOWA

477

Full nitrile coating combined with nitrile foam on palm on polyester/nylon/insulated acrylic liner

BENEFITS

- Seamless knit
- Cold Resistant
- Water-resistant
- Flexible
- Abrasion-resistant
- Extra Grip
- Thermal insulation
- Form-fitting
- Impermeable

FEATURES

Liner: **Seamless knit polyester/Nylon/Insulated Acrylic**

Coating: **Nitrile/Nitrile foam**

Grip: **Foam**

+ **Elasticated wrist cuff, Ergonomic**

APPLICATIONS

- Concreting
- Guttering and drain pipe
- Insulation
- Washing and cleaning
- Planting & repotting
- Bottling
- Water/Sewage treatment
- Plumbing
- Drainage, piping
- Shipping/Receiving

REF	SIZE	LENGTH
477	6/S	210-250 mm
477	7/M	210-250 mm
477	8/L	210-250 mm
477	9/XL	210-250 mm

POLYURETHANE



SHOWA

Temres® 282

Fully breathable micro-ventilated polyurethane coating with micro roughened nitrile finish on fingertips over nylon/insulated acrylic liner

BENEFITS

- Breathable
- Thermal insulation
- Water-resistant
- Seamless knit
- Flexible
- Extra Grip
- Skin-friendly

FEATURES

Liner: **Seamless knit nylon/**

Insulated Acrylic

Coating: **Polyurethane**

Grip: **Rough**

+ **Ergonomic, Waterproof TEMRES® Technology**

APPLICATIONS

- Handling plants and vegetables
- Signalers
- Refrigeration
- Pool /Pond Maintenance
- Washing and cleaning
- Plumbing

REF	SIZE	LENGTH
282	8/M	275 - 300mm
282	9/L	275 - 300mm
282	10/XL	275 - 300mm
282	11/XXL	275 - 300mm



COLD PROTECTION

Insulated liner provides barrier from cold ensuring warmth and comfort all day long.



BREATHABLE

Breathable micro-ventilated TEMRES® technology: membrane fixed between coating and liner allows warm air and moisture from inside to escape to keep your hands dry.



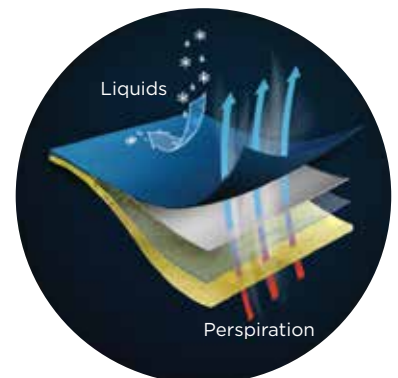
WATERPROOF

Waterproof technology provides a barrier against water and liquids in wet environments.



STRONG GRIP

PU coating on glove with micro roughened nitrile coating finish ensures strong grip.



HEAT PROTECTION

NEOPRENE



SHOWA

6781R

Full neoprene coating over cotton jersey liner

BENEFITS

- Burn protection
- Extra Grip
- Abrasion-resistant
- Soft liner
- Chemical-resistant
- Cut-resistant
- Heat-resistant

FEATURES

Liner: **Cotton jersey**
 Coating: **Fully-coated neoprene**
 Grip: **Rough**
+ Insulated

APPLICATIONS

- Chemical spray and treatment
- Coating preparation
- Laboratory, pharma & analysis
- Painting & spray workshops
- Handling light chemicals in agriculture, horticulture

REF	SIZE	LENGTH
6781R	10/L	305mm



SHOWA

8814

Full neoprene spray coating over non-woven liner

BENEFITS

- Impermeable
- Machine washable
- Increased dexterity
- Easy donning and doffing
- Heat-resistant

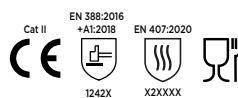
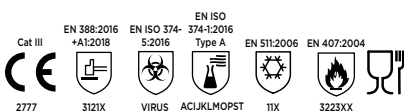
FEATURES

Liner: **Non-woven**
 Coating: **Neoprene sprayed**
 Grip: **Rough**

APPLICATIONS

- Automotive repairs and maintenance
- Mechanical and engineering
- Metal Stamping
- Bakeries & delicatessens
- Casting

REF	SIZE	LENGTH
8814	7/S	355mm
8814	8/M	355mm
8814	9/L	355mm
8814	10/XL	355mm



ANTISTATIC



SHOWA

A0170

Polyurethane palm coating over antistatic nylon/acrylic liner

BENEFITS

- Anti-static
- Seamless knit
- Flexible
- Form-fitting
- Abrasion-resistant

FEATURES

Liner: **Acrylic nylon**
Coating: **Polyurethane palm coating**

+ **Elasticated wrist cuff**

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Semiconductors
- Cleanrooms
- Integrated circuits
- Microelectronic

REF	SIZE	LENGTH
A0170	7/M	275 - 290mm
A0170	8/L	275 - 290mm
A0170	9/XL	275 - 290mm
A0170	10/XXL	275 - 290mm



SHOWA

A0160

Polyurethane fingertips coating over antistatic nylon/acrylic liner

BENEFITS

- Anti-static
- Seamless knit
- Flexible
- Form-fitting

FEATURES

Liner: **Acrylic nylon**
Coating: **Polyurethane fingertips**

+ **Elasticated wrist cuff**

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Semiconductors
- Cleanrooms
- Integrated circuits
- Microelectronic

REF	SIZE	LENGTH
A0160	6/S	215 - 250mm
A0160	7/M	215 - 250mm
A0160	8/L	215 - 250mm
A0160	9/XL	215 - 250mm



SHOWA

A0150

Uncoated antistatic nylon/acrylic liner

BENEFITS

- Anti-static
- Seamless knit
- Flexible
- Form-fitting

FEATURES

Liner: **Acrylic nylon**
Coating: **Uncoated**

+ **Elasticated wrist cuff**

APPLICATIONS

- Intricate parts handling
- Mechanical and engineering
- Semiconductors
- Cleanrooms
- Integrated circuits
- Microelectronic

REF	SIZE	LENGTH
A0150	6/S	200 - 245mm
A0150	7/M	200 - 245mm
A0150	8/L	200 - 245mm
A0150	9/XL	200 - 245mm





CHEMICAL | CUT | GENERAL PURPOSE | **INSULATED** | SINGLE USE

SHIWA
A0160-8/L
EN 188-2016
CE
0130X



SINGLE USE

SHOWA is the first to manufacture biodegradable single use nitrile and accelerator-free nitrile hand protection. We offer a variety of different styles, thicknesses, and lengths, suitable for environments such as industrial automotive, chemical, as well as the option of accelerator-free.

SHOWA SINGLE USE NITRILE RANGE

Combining years of expertise and market insight, SHOWA introduces the most comprehensive biodegradable nitrile solution. The range offers a broad choice of single use gloves, composed of 7 different styles from XS to XXL sizes, suitable for laboratory, pharmaceutical, food industry, automotive and harmful chemical usage and in compliance with all CE standards.

THE SINGLE USE RANGE IS DESIGNED TO FEATURE ALL THE FOLLOWING PHYSICAL PROPERTIES AND BENEFITS:

KEY FEATURES & PHYSICAL PROPERTIES

- Nitrile without plasticizers and powder-free
- Avoids natural rubber allergies risks type I
- SHOWA quality AQL 1.5 to AQL 1.0
- Force at break acc. to EN 455-2(min. 6 N)
- Elongation > 500%
- Biodegradable raw material

COMFORT & PERFORMANCES

- High chemical performance against permeation and degradation
- Chlorinated glove offers easy donning, increased chemical resistance and improved physical properties
- Second skin feel, softer texture
- Low-modulus formulation to improve fit and reduce fatigue
- Textured finish on fingertips to enhance grip



As the original inventor of N-DEX, the world's first single use nitrile glove in 1991, SHOWA has continued over the last two decades to bring further innovation to single use nitrile. We analysed trends and growth drivers to become more competitive by offering the broadest lines of superior quality single use gloves and comprehensive solutions, complying with market requirements:

- Powder-free and natural rubber
- Easy donning and doffing
- Chemical resistant
- Multiple choice colours and thicknesses
- High tensile strength
- Safe for workers' skin
- Comfort in use and high sensitivity
- Ergonomic fit
- Durable and cost-effective glove
- Accelerator-free

To us, sustainability isn't just a commitment, it's part of our legacy. We launched the first biodegradable single-use glove in 2012 as the first step in our sustainability journey: a way to reduce the impact that gloves have on the environment. This strategy remains our primary focus as we expand EBT into every color and millimeter thickness within our product offering, including reusable gloves. This way we can meet the demands of today, without compromising for tomorrow.

Today you can choose from a wide range of biodegradable EBT gloves, each covering a range of applications.



SINGLE USE NITRILE SERIES

RANGE SUMMARY



7500PF

7502PF

6110PF

6112PF


7005PF

8005PF

CD120PF

THICKNESS (mm)	0,10	0,10	0,10	0,10	0,10	0,20	0,10
LENGTH (mm)	240	240	240	240	240	240	240
SIZES	XS-XXL	S-XXL	XS-XL	S-XXL	S-XXL	XS-XL	XS-XXL

CE CATEGORY	III	III	III	III	III	III	III
EN 388	1000X	1000X		2001X	2001X		
EN ISO 374-5	•	•	•	•	•	•	•
EN ISO 374-1	•	•	•	JKL	JKL	KPT	JKPT
FOOD APPROVED (EC No. 1935/2004)	•	•	•	•	•	•	•
SILICONE FREE	•	•	•	•	•	•	•
ACCELERATOR FREE						•	
ULTIMATE TENSILE STRENGTH (MPa)	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 20
ELONGATION AT BREAK (%) MIN.	500	500	500	500	500	500	550
FORCE AT BREAK (N)	≥ 6 N	≥ 6 N	≥ 6 N	≥ 6 N	≥ 6 N	≥ 6 N	≥ 6 N

GLOVES PER DISPENSER 	100	100	50	50	50	100	100
DISPENSERS PER CARTON 	20	20	20	20	20	20	10
AQL	1.0	1.5	1.5	1.5	1.5	1.5	1.5

BIODEGRADABLE EBT



EBT



SHOWA

7500PF

Single-use nitrile glove with EBT® technology, powder-free

BENEFITS

- Disposable
- Biodegradable
- Flexible
- Natural rubber free
- Increased dexterity

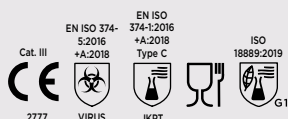
FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,10mm**
 Grip: **Textured Finish**
+ Ergonomic, Eco Best Technology® (EBT), Rolled Cuff

APPLICATIONS

- Intricate parts handling
- Biotechnology
- Pet Food production
- Washing and cleaning
- Laboratory, pharma & analysis

REF	SIZE	LENGTH
7500PF	6/XS	240mm
7500PF	7/S	240mm
7500PF	8/M	240mm
7500PF	9/L	240mm
7500PF	10/XL	240mm
7500PF	11/XXL	240mm



EBT



SHOWA

7502PF

Biodegradable nitrile with EBT® technology, natural rubber and accelerator-free

BENEFITS

- Disposable
- Biodegradable
- Chemical-resistant
- Natural rubber free

FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,06mm**
 Grip: **Textured Finish**
+ Ergonomic, Eco Best Technology® (EBT), Rolled Cuff

APPLICATIONS

- Handling plants and vegetables
- Light Chemical Handling in Horticulture, Agriculture
- Food packing and handling
- Food Service/Food Prep
- Washing and cleaning

REF	SIZE	LENGTH
7502PF	6/XS	240mm
7502PF	7/S	240mm
7502PF	8/M	240mm
7502PF	9/L	240mm
7502PF	10/XL	240mm
7502PF	11/XXL	240mm



Featuring SHOWA's revolutionary Eco Best Technology® (EBT), these gloves are engineered for accelerated biodegradation in biologically active landfills.

The SHOWA 7500PF is a slightly thicker glove being 0.10mm thick compared to the SHOW 7502PF which is 0.06mm thick ideal for the food industry.





EBT



SHOWA

6110PF

Biodegradable single-use glove, nitrile with EBT® technology, powder-free, 240mm long by 0.10mm thick

BENEFITS

- Biodegradable
- Form-fitting
- Disposable
- Smooth Grip
- Natural rubber free
- Water-resistant

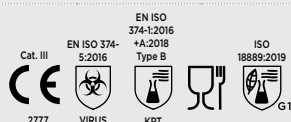
FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,10mm**
 Grip: **Textured fingertips**
+ Ergonomic, Eco Best Technology® (EBT), Rolled Cuff

APPLICATIONS

- Handling plants and vegetables
- Automotive repairs and maintenance
- Intricate parts handling
- Light assembly of oil-coated pieces
- Food packing and handling
- Food Service/Food Prep
- Fruit & vegetable processing
- Poultry, meat & seafood processing
- Washing and cleaning
- Laboratory, pharma & analysis
- Public utility
- Cytostatics
- Pharmaceuticals and API

REF	SIZE	LENGTH
6110PF	6/XS	240mm
6110PF	7/S	240mm
6110PF	8/M	240mm
6110PF	9/L	240mm
6110PF	10/XL	240mm
6110PF	11/XXL	240mm



EBT



SHOWA

6112PF

Single-use, biodegradable glove with EBT® technology prioritising sensitivity and dexterity

BENEFITS

- Biodegradable
- Form-fitting
- Disposable
- Smooth Grip
- Natural rubber free
- Water-resistant

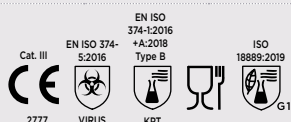
FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,10mm**
 Grip: **Textured fingertips**
+ Ergonomic, Eco Best Technology® (EBT), Rolled Cuff

APPLICATIONS

- Intricate parts handling
- Light assembly of oil-coated pieces
- Mechanical and engineering
- Coating preparation
- Plumbing
- Sanding
- Food packing and handling
- Food Service/Food Prep
- Grain, mill and starch products
- Pet Food production
- Poultry, meat & seafood processing
- Washing and cleaning
- Public utility
- Pharmaceuticals and API

REF	SIZE	LENGTH
6112PF	6/XS	240mm
6112PF	7/S	240mm
6112PF	8/M	240mm
6112PF	9/L	240mm
6112PF	10/XL	240mm
6112PF	11/XXL	240mm



BIODEGRADABLE EBT



EBT



SHOWA

7005PF

Powder free and natural rubber free, the 7005PF has SHOWA's revolutionary EBT® technology

BENEFITS

- Disposable
- Biodegradable
- Natural rubber free
- Increased dexterity
- Flexible

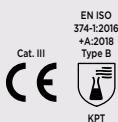
FEATURES

Liner: **Unlined**
 Coating: **Nitrile**
 Thickness: **0,10mm**
 Grip: **Textured**
**+ Eco Best Technology® (EBT),
 Rolled Cuff**

APPLICATIONS

- Laboratory
- Biotechnology
- Intricate parts handling
- Washing and cleaning
- Painting & spray workshops

REF	SIZE	LENGTH
7500PF	6/XS	240mm
7500PF	7/S	240mm
7500PF	8/M	240mm
7500PF	9/L	240mm
7500PF	10/XL	240mm
7500PF	11/XL	240mm
7500PF	12/XXL	240mm





EBT



SHOWA

8005PF

Powder-Free, lightweight design, ambidextrous and uses second-skin feel with EBT®

BENEFITS

- Easy donning and doffing
- Natural rubber free
- Increased dexterity
- Single-use

FEATURES

Liner: **Unlined**

Coating: **Nitrile**

Thickness: **0,20mm**

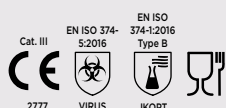
Grip: **Smooth**

**+ Eco Best Technology® (EBT),
Rolled Cuff**

APPLICATIONS

- Handling plants and vegetables
- Intricate parts handling
- Light assembly of oil-coated pieces
- Mechanical and engineering
- Chemical spray and treatment
- Coating preparation
- Painting & spray workshops
- Food packing and handling
- Food Service/Food Prep
- Fruit & vegetable processing
- Pet Food production
- Poultry, meat & seafood processing
- Washing and cleaning
- Public utility
- Life sciences
- Cytostatics
- Biotechnology
- Pharmaceuticals and API

REF	SIZE	LENGTH
8005PF	7/S	240mm
8005PF	8/M	240mm
8005PF	9/L	240mm
8005PF	10/XL	240mm



SHOWA

CD120PF

Single-use, Polychloroprene glove prioritising sensitivity and dexterity

BENEFITS

- Flexible
- Increased sensitivity
- Chemical resistant

FEATURES

Liner: **Unlined**

Coating: **Polychloroprene**

Thickness: **0,12mm**

Grip: **Smooth**

APPLICATIONS

- Painting and spray workshops
- Chemical spray treatments
- Coating preparation
- Assembly dry and oily parts
- Wash and cleaning

REF	SIZE	LENGTH
CD120PF	6/XS	240mm



EUROPEAN STANDARDS FOR PPE

The **European Directive 89/686/EEC** on PPE has been superseded by the new **PPE Regulation (EU) 2016/425**. This Regulation, that introduces revisions in several PPE standards such as EN 388 and EN 374, was published in the **Official Journal of the European Union** on 31st March 2016 and is being applied as of 21st April 2018. The existing certificates according to the Directive will remain valid until 21st April 2023. For more information on the revision of the Directive and its implications, please visit the **SHOWA** group website.

SHOWA has recertified all products according to the new regulations, and these changes can be seen on the technical documentation available from the website.

Please note that products manufactured after the recertification will have the updated norms on the glove stamp. Gloves manufactured before the recertification will have the old norms. This is not a reflection on the quality of the gloves and they can still be used.

CE CATEGORY

European Directive
89/686/EEC



- CATEGORY I** Minor risks.
- CATEGORY II** Reversible risks (injury), certified compliant by a notified body.
- CATEGORY III** Irreversible risks (corrosion), certified compliant and tested by a notified body whose number is specified.

EN ISO 21420:2020

Protective gloves -
general requirements

- General requirements and relevant test procedures for glove design and construction
- Innocuousness
- Comfort and efficiency
- Marking
- Information supplied by the manufacturer

EN ISO 374-1: 2016 +A1:2018

The standard defines requirement for the capability of gloves to protect the user against penetration, permeation and degradation by chemicals and microorganisms. It classifies three types of gloves by level of protection (A, B, and C).

EN 16523-1:2015 +A1:2018

(replaces EN 374-3)

Resistance to chemical
permeation



Transition period until
21st April 2023



See more at
ChemRest.com

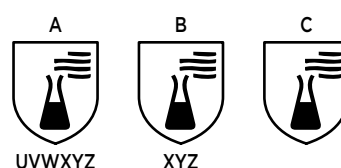
Test method to measure the resistance of the PPE material to permeation by hazardous chemicals at molecular level and under continuous contact. The resulting value is the breakthrough time or the time needed by the hazardous liquid or gas to get in contact with the skin. The glove is classified in terms of breakthrough time performance level 1 to 6.

Measured breakthrough time	Permeation performance index
> 10	1
> 30	2
> 60	3
> 120	4
> 240	5
> 480	6

The standard defines a list of 18 chemicals. The minimum breakthrough time for a Type A glove is 30 mins (Level 2) for 6 chemicals, for a Type B it is 30 mins for at least 3 chemicals, and for Type C it is 10 mins (Level 1) for at least 1 chemical on the list.

Type of gloves	Breakthrough time
A	≥30 min for at least 6 chemicals
B	≥30 min for at least 3 chemicals
C	≥10 min for at least 1 chemical

The 'chemical resistant' glove pictogram must be accompanied by code letters for the tested chemicals for Type A and Type B gloves. Type C marked gloves are without any code letter.



From 21/04/2018

LIST OF CHEMICALS:

Letter code	Chemical	CAS number	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	Organic compound containing sulphur
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofurane	109-99-9	Heterocyclic ether
I	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-82-5	Saturated hydrocarbon
K	Caustic soda 40%	1310-73-2	Inorganic base
L	Sulfuric acid 97%	7664-93-9	Inorganic mineral acid
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, contact poison
T	37% Formaldehyde	50-00-0	Aldehyde

NEW CHEMICALS

EN ISO 374-5: 2016

Protection against
micro-organisms

EN ISO 374-5 EN ISO 374-5



VIRUS

Micro-organisms are defined by the standard as bacteria, fungi or viruses. To claim resistance to bacteria and fungi the glove must pass the penetration resistance test according to standard EN 374-5: 2016. If the glove passes ISO 16604: 2004 (method B) test it can claim resistance to viruses as well, and the term "VIRUS" will be added below the biohazard pictogram.

EN 388: 2016

Mechanical risks



A) ABRASION RESISTANCE (0-4)

Number of cycles required to abrade a hole using abrasive paper in a circular sample of glove material under constant pressure and motion.

B) BLADE CUT RESISTANCE BY COUP TEST (0-5)

Number of cycles required to cut a sample using a stainless steel circular blade under constant speed and low force of 5 newtons (approx. 510g). For materials that dull the blade, after a certain number of cycles without cut through, the ISO 13997 test is performed and becomes the reference cut resistance value.

C) TEAR RESISTANCE (0-4)

Force required to propagate a tear in a rectangular sample of a glove with a starting incision, to a maximum force of 75N (approx. 7,6kg).

D) PUNCTURE RESISTANCE (0-4)

Force required to puncture the sample with a standard size steel point at a constant speed of 10 cm/min.

E) BLADE CUT RESISTANCE BY ISO TEST (A-F)

Force in newtons (N) required to cut through a sample using a rectangular blade in a specified cut test machine such as Tomodynamometer (TDM). This test is optional unless the blade in Coup test becomes dull, whereupon it becomes the reference for cut resistance. A letter value is assigned as follows:

Level of protection	A	B	C	D	E	F
Force in newtons	>2	≥5	≥10	≥15	≥22	≥30
Cut resistance	LOW	MEDIUM		HIGH		

F) IMPACT RESISTANCE (P)

For protective gloves claiming impact resistance. Measures dissipation of force by the area of protection upon an impact of a domed anvil at an impact energy of 5 joules. Testing is carried out in accordance with the impact protection test for motorcycle protective gloves of EN 13594:2015 standard. A letter "P" is added on successful pass, while a fail remains unmarked. Level X can also be applied for a - f above, which means "not tested".

Level of protection	1	2	3	4	5
Abrasion resistance (number of cycles)	>100	≥500	≥2000	≥8000	-
Blade cut resistance by Coup test (index)	>1,2	≥2,5	≥5	≥10	≥20
Tear resistance (force in newtons)	>10	≥25	≥50	≥75	-
Puncture resistance (force in newtons)	>20	≥60	≥100	≥150	-

EN 511: 2011

Cold-related risks



Tested levels of glove performance in terms of the following risks:

- Climatic or industrial cold transmitted by convection (0 to 4).
- Climatic or industrial cold transmitted by contact (0 to 4).
- Impermeability to water (0 or 1).

If the glove shows this symbol, it has achieved a performance index for (from left to right) climatic cold or industrial cold transmitted by convection, climatic cold or industrial cold transmitted by contact, impermeability to water.

"0" means that during the test level 1 was not reached.

"X" means that the test was not performed or not possible.

EN 407:2020

Protective gloves and other hand protective equipment's against thermal risks (heat and/or fire)



abc def

Claims a limited flame spread level of performance (at least level 1), flame protection is claimed



abc def

Does not claim a limited flame spread level of performance and no flame protection is claimed

This standard is used to define test methods, marking, requirements, and any other information for gloves against thermal risks such as conductive heat, radiant heat, etc.

HEAT-RELATED RISKS

Tested levels of glove performance in terms of the following risks:

- Resistance to limited flame spread (0 to 4)
- Resistance to contact heat (0 to 4)
- Resistance to convective heat (0 to 4)
- Resistance to radiant heat (0 to 4)
- Resistance to small splashes of molten metal (0 to 4)
- Resistance to large quantities of molten metal (0 to 4)
- "0" means that during the test level 1 was not reached.
- "X" means that the test was not performed or not possible.

EN 1149

Protective clothing -
Electrostatic properties

Part 1 – Test method for Surface Resistance of the article.
Part 2 – Test method for measurement of the electrical resistance through an article.
Part 3 – Test method for charge decay at a single point of the article.
Part 5 – Article performance and design requirements.

EN 16530

Protective clothing -
Electrostatic properties

Standard to be used in ATEX zone (working place/condition with risk of explosion)
EN 16530 utilizes EN 1149-2 and is part of the EN 21420

RISKS RELATED TO FOOD CONTACT



It is applied to materials and articles that, at finished state, are intended to come into contact or are brought into contact with foodstuffs or with water that is for human consumption. According to Regulation 1935/2004: «The materials and articles must be manufactured in accordance with good manufacturing practice so that, under normal or foreseeable conditions for their use, they do not transfer their constituents to food in quantities which could:

- Present a danger to human health,
- Results in an unacceptable change in the composition of the foodstuffs or a deterioration in the organoleptic characteristics thereof.»

All SHOWA gloves with the «food contact» logo are conform to Regulation (EU) No 1935/2004 and the Regulation (EU) No 2023/2006.

EUROPEAN REGULATION MDR 2017/745 FROM DIRECTIVE 93/42/EEC COVERING MEDICAL EXAMINATION AND SURGICAL GLOVES

EN 455-1

Freedom from holes

A random sample of gloves is tested for freedom of holes by undergoing a water leak penetration test. The gloves are filled with 1l of water and must remain completely leak proof over a defined period of time. A failed test results in a higher AQL value, which for medical gloves sold in Europe must be 1,5 or lower.

AQL (accepted quality level) is a quality sampling procedure ISO 2859-1 used by manufacturers for measuring the % likelihood of pinhole defects in a batch of single use gloves. An AQL of 1,5 brings a statistical probability that less than 1,5% of the gloves in the batch will have defects.

EN 455-2

Physical properties

Size and tensile strength requirements for single use medical gloves. No less than 240mm in median length and 95mm (310mm) median width to provide adequate protection along full length of the hand (exception for long cuff gloves).

Strength is measured by elongation until breaking point, indicated as Force At Break (FAB) in newtons (N). FAB is measured on standard sample and on a rapid aged sample that is kept at 70°C for 7 days to simulate glove deterioration during prolonged shelf life. FAB requirements differ per glove material and if the glove is for examination or surgical purpose. Indication of median minimum FAB values:

	Force at break (N) during shelf life	
	Rubbers (e.g. natural natural rubber, nitrile)	Thermoplastics (e.g. PVC, vinyl, butyl)
Examination glove	≥ 6,0	≥ 3,6
Surgical glove	≥ 9,0	-

EN 455-3

Biological evaluation

A number of important requirements are specified to maintain biological safety of the glove for the medical practitioner as well as the patient. "NATURAL RUBBER" pictogram on packaging for natural natural rubber rubber gloves is mandatory. No terms suggesting relative safety of usage are permitted i.e. low allergenicity, hypoallergenicity or low protein content. Powder residue, which is seen as unwanted contaminant on medical gloves, must not exceed 2mg per glove with "powder-free" claim. Water extractable natural rubber protein content in natural rubber gloves must not exceed 50 microgram per gram of rubber to minimize natural rubber exposure that can cause allergic reactions. The level of endotoxins generated by bacteria on sterile gloves that claim "low endotoxin level" may not exceed 20 EU per glove pair (EU=Endotoxin Units).

EN 455-4

Shelf life determination

The standard ensures there is no performance degradation during storage period prior to use. Accelerated aging tests are performed on glove samples to determine shelf life, to enable manufacturers to prove that their product will withstand (usually) up to 3 years and in some cases up to 5 years without losing their strength and protection properties.

GLOVE SIZE CHART

It is crucial to get the glove size right for maximum dexterity.

Here are a few recommendations to help you in finding the right size of gloves you need.

Glove size further to EN 420	Hand (mm)		Glove (mm) Minimum length
	Palm circumference	Length	
6	152	160	220
7	178	171	230
8	203	182	240
9	229	192	250
10	254	204	260
11	279	215	270

COLOUR-CODED CUFF

Some styles of SHOWA gloves have a colour-coded cuff. These cuffs enable the size recognition in the factory and the pairing after washing the gloves.

TESTING PRIOR TO USING

If the glove is too small, it cuts off the blood circulation and restricts the movement of the hand. On the other hand, oversized gloves slip off at the slightest movement and make your handling very imprecise. To be sure of your size and fit, do not hesitate to ask for samples from your SHOWA distributor.



PLACE YOUR RIGHT HAND ON THE DIAGRAM:

The green line should be between your thumb and index finger.
The size is indicated on the right.



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COMMITTED TO SAFE MANUFACTURING

REACH is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals. REACH stands for Registration, Evaluation, Authorisation and Restriction of Chemicals. REACH establishes procedures for collecting and assessing information on the properties and hazards of substances. SHOWA's whole manufacturing process is in line with the requirements of the European REACH Regulation. All SHOWA products today and in the future will remain free from substances of very high concern (SVHC).