



EXCIA
There's Comfort in Quality



From Asia, To Asia, For Asia

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About Us



We are an Asian user-oriented Personal Protective Equipment (PPE) solution provider that has been serving Asian users for more than 22 years, empowering people to work efficiently, comfortably, and safely.

There's Comfort in Quality

Products

Partnership

Services

With over 22 years of experience in product knowledge, industry expertise, and Asia-wide supply, we optimize:



Personal
Protective Equipment



Product
Protection Equipment



Production
Productivity Efficiency



We strive to provide the Highest Quality of Products and Maximum Customer Satisfaction by getting our employees to actively participate in the process, ensuring that we comply with the ISO 9001:2015 Quality Management System.



Our mission is to create a comfortable workplace that helps businesses and households enhance efficiency and productivity. We do this because comfort, functionality, and dexterity in PPE are more important now than ever before. To achieve this, we provide expert solutions, tools, and services that are suitable for your industry's application:

By doing this, our customers can enjoy Excia's product benefits in hand, body and respiratory protection.

Needs
Identification

Trials and
Testing

Propose the
Best Solutions

We believe Asia's businesses and people deserve a quality work life, which can be achieved by leveraging Asia's rich resources, creativity and technological expertise in making Asia superior - from Asia, to Asia, for Asia.

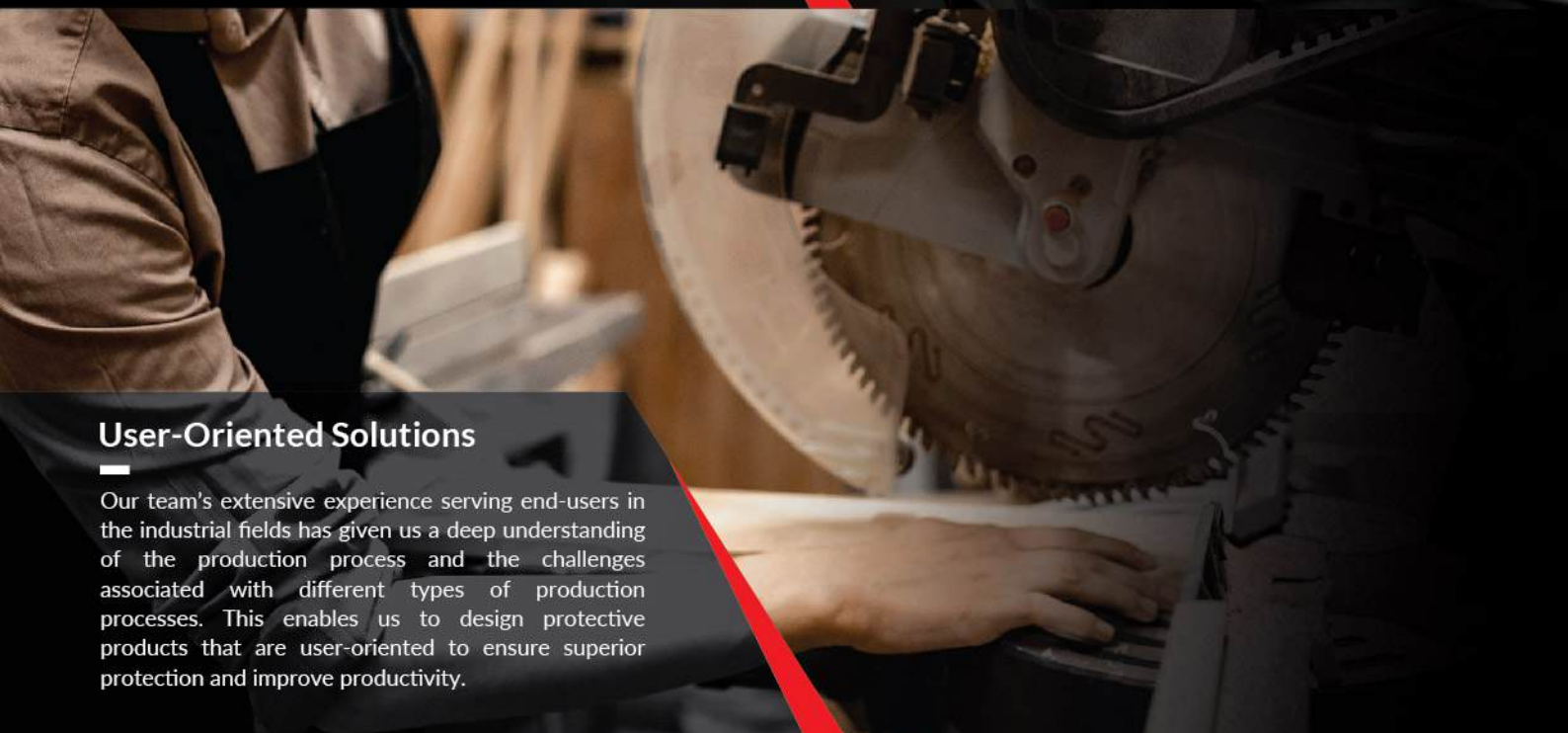
Why Choose Us



Comfort in Quality

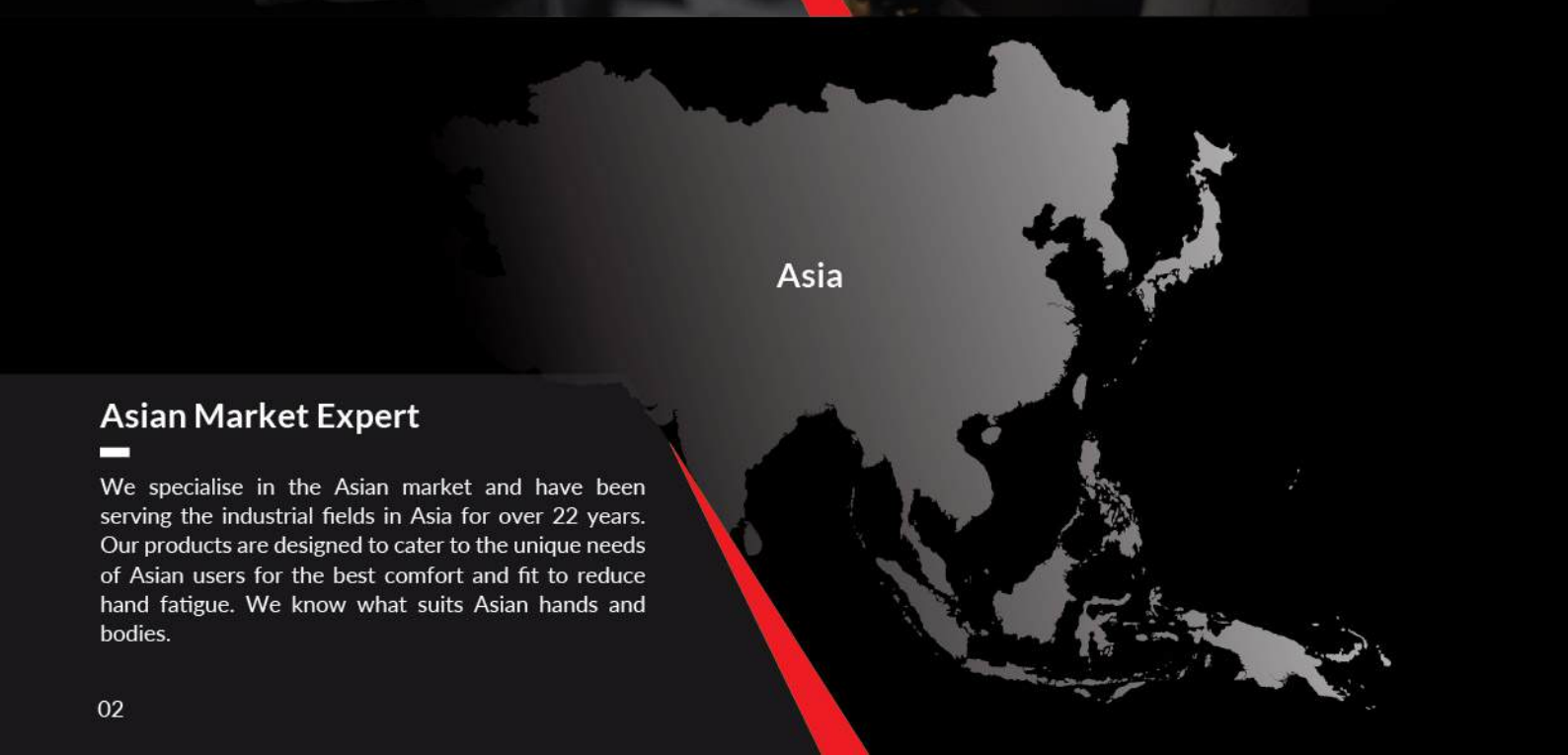
Excia's glove and coverall series products are designed with both quality and user comfort in mind. We prioritise meeting technical and functional requirements, ensuring high functionality and dexterity. This not only makes them easy to work with but also enables users to handle work efficiently, ultimately reducing operational costs.

User-Oriented Solutions



Our team's extensive experience serving end-users in the industrial fields has given us a deep understanding of the production process and the challenges associated with different types of production processes. This enables us to design protective products that are user-oriented to ensure superior protection and improve productivity.

Asia



Asian Market Expert

We specialise in the Asian market and have been serving the industrial fields in Asia for over 22 years. Our products are designed to cater to the unique needs of Asian users for the best comfort and fit to reduce hand fatigue. We know what suits Asian hands and bodies.



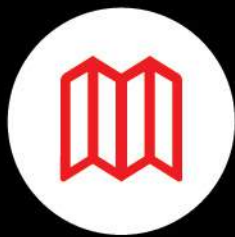
Hand Protection

	Page
General Purpose	04 - 10
Cut Resistance	11 - 16
Chemical Resistance	17 - 25
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NexPolymer™

New Generation Coating

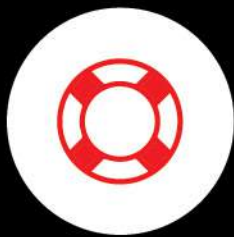
The NexPolymer™ is a multi-functional, green polymer coating with a leather-like surface, made from polymer polyurethane material. It's a fundamental breakthrough for the long-term safety of the environment as it eliminates the use of solvents in the manufacturing process.



PU

360° air permeability,
good abrasion,
comfortable hand feeling,
and certain anti-static

+



TPU

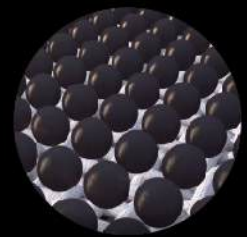
Good oil resistance
and absorption

+



PUD

DMF-Free



NexPolymer™

The Benefits of NexPolymer™



Food grade



Biodegradable



Good durability



High elasticity



Water proof



Up to -25°C low
temperature resistance



Leather-like texture



Natural latex free



Best grip performance



Up to 160°C
heat resistance



Odourless



Quick dry



Natural foam



Silicone free

NexPolymer™ Gloves Series



GX 505

Pg 06



GX 518

Pg 07



TX 536

Pg 12



TX 537

Pg 13



Touch screen
function

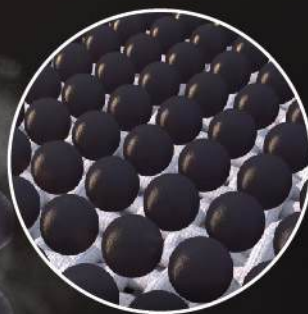
NexPolymer™

Coating Passed the Food Contact Test and Biodegradable



360° Breathable

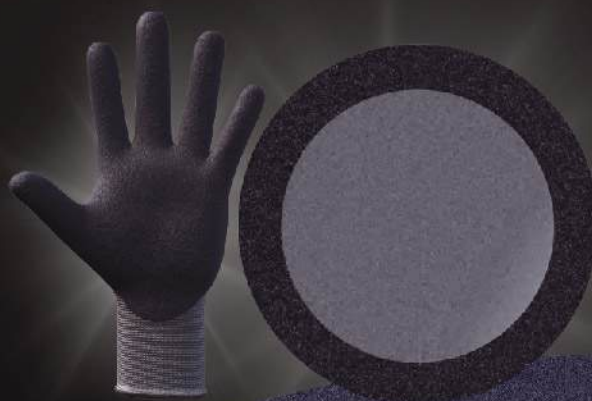
Lightweight, Soft, Best Fitting and Comfort



>8,000

Cycle of Abrasion Resistance

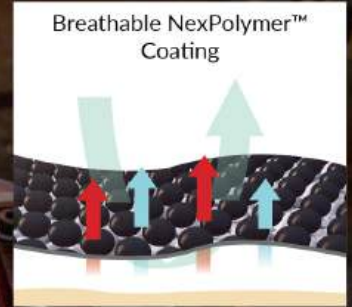
More Durable and Long Lasting



GX505

General Purpose

Superior breathability with NexPolymer™ coating technology prevent sweaty hand



BENEFITS

- Excellent abrasion resistance enhances durability and wear time.
- Comfortable with 360° air permeability prevent sweaty hand.
- Biodegradable coating for eco friendly.
- Outstanding dexterity for fine work.
- Superior fitting for long working hours.

FEATURES

- NexPolymer™ new generation coating
- High abrasion resistance
- 360°breathable
- DMF-free
- Lightweight and soft
- Touch screen 
- Food safe



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 12 Polybags per carton
- 120 Pairs per carton

Length

240mm

Thickness

-

Colour

Black

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

NexPolymer™

Material

15-Gauge nylon + Spandex glove lining

APPLICATIONS



Machinery



Mechanical



Engineering



Electronic / Semiconductor



Automotive



Aerospace



Transportation



Packaging



Warehousing & Distribution



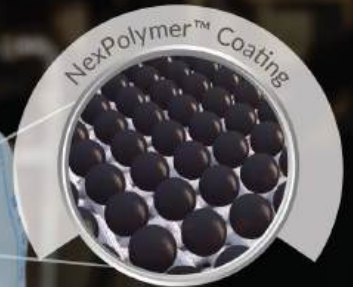
Food Processing



GX518

General Purpose

Superior breathability with NexPolymer™ coating technology prevent sweaty hand



BENEFITS

- Excellent abrasion resistance enhances durability and wear time.
- Comfortable with 360° air permeability prevent sweaty hand.
- Biodegradable coating for eco friendly.
- Outstanding dexterity for fine work.
- Superior fitting for long working hours.

FEATURES

- NexPolymer™ new generation coating
- High abrasion resistance
- 360°breathable
- DMF-free
- Lightweight and soft
- Food safe



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 12 Polybags per carton
- 120 Pairs per carton

Length

240mm

Thickness

-

Colour

Blue

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

NexPolymer™

Material

15-Gauge nylon + Spandex glove lining

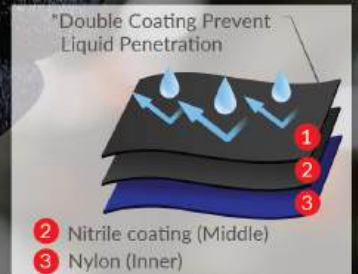
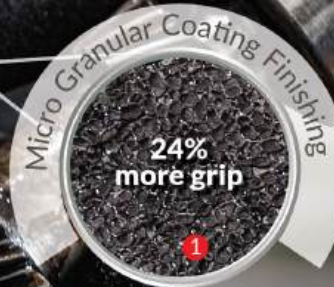
APPLICATIONS



GT505

General Purpose

Excellent grip performance with nitrile micro granular coating improve job performance in light wet/ oil condition



*Testing of gloves was carried out in accordance to SATRA TM438:2011- Whole hand grip using engine oil



BENEFITS

- Excellent grip performance in light wet/oil condition.
- High abrasion resistance enhances durability and wear time.
- Double coating nitrile resistant against puncture.
- Second palm coated layer acts against liquid penetration.
- Outstanding dexterity for fine work.
- Superior fitting for long working hours.
- Comfortable with breathable back.

FEATURES

- Micro granular surface finishing
- Nitrile rubber
- Nylon liner
- Double layer nitrile palm coated

ECO PACKAGING DESIGN

Environmentally friendly

- Available in retail/on shelf with a paper tag on each pair.
- The paper tag is intended to be worn and checked for size.
- Inner Paper Box
- Paper Tag



PRODUCT SPECIFICATION

Packaging

- 12 Pairs per inner box
- 12 Inner boxes per carton
- 144 Pairs per carton

Length

220mm - 280mm

Thickness

0.40mm - 0.50mm

Colour

Dark Blue

Sizes

- 6/XS
- 7/S
- 8/M
- 9/L
- 10/XL

Coating

Nitrile micro granular

Material

13-Gauge nylon liner

APPLICATIONS



STANDARDS



GT529

General Purpose

Good grip performance in light wet/oil condition

Foam Nitrile



BENEFITS

- Good grip performance in light wet/oil condition.
- High abrasion resistance enhances durability and wear time.
- Good dexterity for fine work.
- Nicely fit for long working hours.

FEATURES

- Foam nitrile
- High abrasion resistance
- Lightweight and soft
- Touch screen



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 12 Polybags per carton
- 120 Pairs per carton

Length

240mm

Thickness

-

Colour

Black

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

Nitrile

Material

13-Gauge polyester

APPLICATIONS



Machinery



Mechanical



Mining



Engineering



Electronics



Automotive



Aerospace



Construction



Transportation



Packaging



Warehousing & Distribution



GT337

General Purpose

Double palm coating provide superior grip performance in dry, wet and oily conditions



BENEFITS

- Double palm coating provides superior grip in dry, wet and oily conditions.
- Second palm coated layer acts against liquid penetration.
- Foam nitrile coating increased flexibility.
- High abrasion resistance enhances durability and wear time.
- Good dexterity for fine work.
- Superior fitting for long working hours.

FEATURES

- Foam nitrile palm double coated.
- High abrasion resistance.



PRODUCT SPECIFICATION

Packaging	• 12 Pairs per polybag • 10 Polybags per carton • 120 Pairs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL • 11/XL
Length	240mm	Coating	Nitrile
Thickness	-	Material	13-Gauge polyester
Colour	Blue		

APPLICATIONS



STANDARDS



TungFlex™

New Cut Resistant Yarn

TungFlex™ is a proprietary metal fiber solution that has been innovated to provide superior cut protection without the need for fiberglass, basalt or steel fiber reinforcements. Using TungFlex™ yarn in areas requiring cut resistance is more flexible, stronger and safer.

The Benefits of TungFlex™



High flexibility

25% to 50% thinner than conventional cut resistance materials (steel, fiberglass or basalt) and lightweight.



Excellent comfort

50% lighter than conventional cut resistance gloves of same protection level resulting in more comfort and reduce hand fatigue.



Superior cut protection

TungFlex™ Special Metal Fiber hardness is 2x better than Steel, 1.5x better than Basalt and Fibreglass based on Mohs scale (Hardness values higher is stronger).



Allergy-free

TungFlex™ Special Metal Fiber do not contain material that cause allergy.

TungFlex™ Cut Resistant Glove Series



TX 536
Pg 12



TX 537
Pg 13

TX536

Cut Resistance

Superior breathability & cut resistance performance with NexPolymer™ coating & TungFlex™ fiber technology prevent cut injury



BENEFITS

- Excellent abrasion resistance enhances durability and wear time.
- Cut level D performance with TungFlex™ fiber technology to prevent cut injury.
- Comfortable with 360° air permeability prevent sweaty hand.
- Biodegradable coating for eco friendly.
- Outstanding dexterity for fine work.

Breathable NexPolymer™ Coating



FEATURES

- NexPolymer™ new generation coating
- TungFlex™ new cut resistant yarn
- High abrasion resistance
- Lightweight and soft
- 360°breathable
- Allergy-free
- DMF-free
- Food safe



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 12 Polybags per carton
- 120 Pairs per carton

Length

240mm

Thickness

-

Colour

Green

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

NexPolymer™

Material

18-Gauge TungFlex™

APPLICATIONS



STANDARDS



TX537

Cut Resistance

Superior breathability & higher cut resistance performance with NexPolymer™ coating & TungFlex™ fiber



BENEFITS

- Excellent abrasion resistance enhances durability and wear time.
- Higher cut resistance level E with TungFlex™ fiber technology to prevent cut injury.
- Comfortable with 360° air permeability prevent sweaty hand.
- Biodegradable coating for eco friendly.
- Outstanding dexterity for fine work.



FEATURES

- NexPolymer™ new generation coating
- TungFlex™ new cut resistant yarn
- High abrasion resistance
- Lightweight and soft
- 360°breathable
- Allergy-free
- DMF-free
- Food safe



PRODUCT SPECIFICATION

Packaging	• 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL
Length	240mm	Coating	NexPolymer™
Thickness	-	Material	18-Gauge TungFlex™
Colour	Blue		

APPLICATIONS



TT515

Cut Resistance

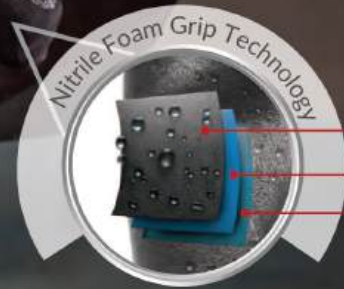
Lightweight with superior cut performance to reduce risk of injury

HPPE



Stainless Steel Wire

Spandex + Nylon



Nitrile Foam

Thin Film Nitrile Liner



BENEFITS

- Lightweight for superior grip performance and greater comfortability.
- Cut level D protection to prevent cut injury.
- Superior fitting for long working hours.
- Outstanding dexterity for fine work.
- Anti-static feature that minimizes electrostatic discharge from damaging the product.
- High abrasion resistance enhances durability and wear time.

FEATURES

- Lightweight
- Comfort fit with mid-level cut resistance
- Easy to handle precise job
- Anti-static
- Silicone free
- Touch screen



PRODUCT SPECIFICATION

Packaging	• 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL
Length	220mm - 280mm	Coating	Nitrile
Thickness	0.92mm	Material	15-Gauge HPPE stainless steel + Spandex + Nylon
Colour	Grey		

APPLICATIONS



Machinery



Automotive



Semiconductor



Transportation



Aerospace



Construction



Glass Manufacturing

STANDARDS



EN 388:2016



EN 1149-1



TT520

Cut Resistance

Highest cut resistance with reinforced crotch & extra length for wrist protection



BENEFITS

- Highest cut protection with cut level F performance to prevent cut injury.
- Excellent abrasion resistance enhances durability and wear time.
- Reinforced crotch for extra cut protection.
- Extra length for wrist protection.

FEATURES

- Cut level F performance
- High abrasion resistance
- Reinforced crotch
- Extra length



Reinforced crotch

Wrist length
(180mm)



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 6 Polybags per carton
- 60 Pairs per carton

Length

350mm

Thickness

-

Colour

Light Grey

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

Nitrile

Material

13-Gauge HPPE + Stainless steel



APPLICATIONS





TU540

Cut Resistance

Good cut performance with comfort fit

TU550

Cut Resistance

Superior cut performance with reinforced crotch for long lasting use



Cut Level C

BENEFITS

- Provide protection with cut level C/D to prevent cut injury.
- Good grip performance in light wet/oil condition.
- Good dexterity for fine work.



Cut Level D

FEATURES

Comfort fit

Cost effective and nicely fit to hands.



STANDARDS



FEATURES

Reinforced crotch for extra cut protection



STANDARDS



PRODUCT SPECIFICATION

Packaging

- 10 Pairs per polybag
- 12 Polybags per carton
- 120 Pairs per carton

Length

240mm

Thickness

-

Colour

Light Grey (TU540)
Grey (TU550)

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL
- 11/XXL

Coating

PU

Material

13-Gauge HPPE + Glass fiber

APPLICATIONS



Machinery
Manufacturing



Car
Manufacturing



Agriculture



Horticulture



Transportation



Aerospace/
Aircraft
Manufacturing



Construction



Glass
Processing



Packaging



Logistics



Mining



Warehousing
& Distribution



Mechanical

Graphene

New Generation Coating

What is Graphene?

Graphene is a new carbonaceous material which demonstrates lightest, thinnest, hardest and strongest to be used for specialist hand protection. Its density is 3X harder than the surface of a diamond, and on an equal weight basis, graphene is 200 times stronger than steel.

The Benefits of Graphene



Excellent Grip Performance

Graphene PVC is tested to have 28% more grip than normal PVC coating gloves in oily conditions.



High Abrasion Resistant

High abrasion performance with >20,000 cycles for prolonged usage period.



Odor-resistant

Effectively eliminating unpleasant odors and keeping hands feeling fresh and comfortable.



Oil-resistant

Superior protection in oily condition with double coating of Graphene and PVC compared to normal PVC coating.

Graphene PVC series glove



CP251

Pg 18

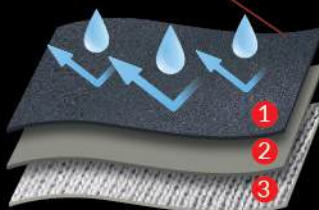


CP252

Pg 18



*Double Coating Prevent Liquid Penetration



- 1 Graphene
- 2 PVC (Middle)
- 3 Cotton (Inner)

*Testing of gloves was carried out in accordance to SATRA TM438:2011 – Whole hand grip using engine oil.

CP251

Chemical Resistance

PVC graphene chemical resistance glove with high abrasion performance

CP252

Chemical Resistance



BENEFITS

- High abrasion resistance enhances durability and wear time.
- Graphene PVC coating provides super oil resistance, chemical resistance, acid and alkali resistance.
- Good grip performance in heavy oil/wet condition reduces hand fatigue.
- Good absorption of perspiration with cotton lining prevent sweaty hand.
- Superior fitting and comfort for long working hours.
- Good dexterity for fine work.



Extra 40mm length

Extended length for extra protection



20k + Abrasion Cycles

PVC Graphene coating
28% more grip

*Grip performance testing was carried out in accordance to SATRA TM438:2011 – Whole hand grip using engine oil.

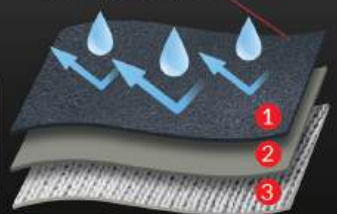
FEATURES

- Coating mix with graphene (Graphite polyethylene)
- Cotton liner
- Rough finish over entire surface
- Waterproof



Cotton Lining

*Double Coating Prevent Liquid Penetration



- 1 Coating: Graphene
- 2 Coating: PVC
- 3 Liner: Cotton

PRODUCT SPECIFICATION

Packaging	• 10 Pairs per polybag • 6 Polybags per carton • 60 Pairs per carton	Sizes	• 8/M • 9/L • 10/XL
Length	260mm±5mm (CP251) 300mm±5mm (CP252)	Coating	PVC with graphene
Thickness	1.51mm (palm)±0.2mm	Material	13-Gauge cotton liner
Colour	Grey		

APPLICATIONS



Chemical



Automotive



Machinery
Manufacturing



Janitorial &
Cleaning



Oil & Gas

STANDARDS



CP013

Chemical Resistance

PVC chemical resistance
thin glove with embossed
snail pattern

Embossed Snail Pattern

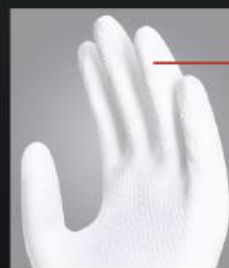


BENEFITS

- Embossed snail pattern palm and fingers providing superior grip performance.
- Fingertips double dipping enhance durability.
- Skin friendly reduce hand allergy.
- Superior fitting and comfort for long working hours.

FEATURES

- Unsupported PVC (non-phthalate plasticizer)
- Embossed snail pattern palm and fingers
- Fingertips double dipping
- Skin friendly
- Ergonomic design



Fingertips double dipping



PRODUCT SPECIFICATION

Packaging

- 12 Pairs per polybag
- 10 Polybags per carton
- 120 Pairs per carton

Length

310mm±5mm

Thickness

0.25mm (palm)

Colour

White/Blue

Sizes

- 7/S
- 8/M
- 9/L

Coating

PVC

Material

-

APPLICATIONS



Agriculture



Aerospace



Automotive



Chemical



Pharmaceutical



Janitorial & Cleaning

STANDARDS



CE

2777



EN 388:2016

2000X



EN ISO 374-1:2016/TYPE B

RTP



EN ISO 374-5:2016



Excellent Chemical
Performance

CT135

Chemical Resistance

Excellent performance against chemical permeation & durability in handling chemical with confident

CT037

Chemical Resistance

Excellent performance against chemical permeation & durability in handling chemical with confident & extended length



*Testing of gloves was carried out in accordance to SATRA TM438:2011 -Whole hand grip using engine oil

BENEFITS

- Excellent resistance to animal fats, aromatic solvents, and petroleum-based solvents.
- For long lasting mechanical resistance.
- Textured finish grip makes wet work easier and safer.
- Ergonomic design maximizes comfort.
- Specially formulated for improved dexterity & durability.



410mm
length

Forearm protection with extended length



FEATURES

- Unsupported 100% nitrile
- Flock-lined
- Solvent & chemical resistance
- Premium grade Acrylonitrile Butadiene rubber
- Food safe



Flock-lined

STANDARDS



STANDARDS



PRODUCT SPECIFICATION

Packaging	(CT135)	(CT037)	Sizes	(CT135)	(CT037)
	• 12 Pairs per polybag	• 10 Pairs per polybag		• 7/S	• 8/M
	• 12 Polybags per carton	• 6 Polybags per carton		• 8/M	• 9/L
	• 144 Pairs per carton	• 60 Pairs per carton		• 9/L	• 10/XL
Length	330mm ± 30mm (CT135) 410mm± 20mm (CT037)		Coating	Nitrile	
Thickness	0.40mm ± 0.10mm (Palm area) (CT135) 0.52mm ± 0.3mm (Palm area) (CT037)				
Colour	Green		Material	Flock lined	

APPLICATIONS



CT008

Chemical Resistance

Excellent grip performance with unique embossed design improve job performance in light wet/ oil condition



BENEFITS

- Excellent grip in wet condition with unique embossed pattern design on palm.
- Beaded cuff prevents dirt and liquid from running down the arm of the user and increase cuff strength.
- Easy donning and doffing with chlorinated process and beaded cuff design.
- Prevent contamination with certified standard.
- Premium quality nitrile increase durability and improve fat and oil resistance.
- Tested to be impermeable for working in damp or greasy environments.
- Extra comfort and dexterity with hand-specific form design.

FEATURES

- Food safe
- Unsupported, unlined nitrile
- Beaded cuff
- Unique embossed finish pattern (Diamond textured)
- Non-powdered
- Hand-specific form



Beaded Cuff



PRODUCT SPECIFICATION

Packaging	• 12 Pairs per polybag • 12 Polybags per carton • 144 Pairs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL • 11/XXL
Length	305mm	Coating	Nitrile
Thickness	0.28mm-0.33mm	Material	Unlined
Colour	Blue		

APPLICATIONS



Abattoir



Food Processing



HoReCa



Pharmaceutical



Healthcare



Chemical



Janitorial & Cleaning



Laboratory



Municipal Services

STANDARDS



CAT. II

2777

EN 388:2016



0001X

EN ISO 374-1: 2016/TYPE B



JKL

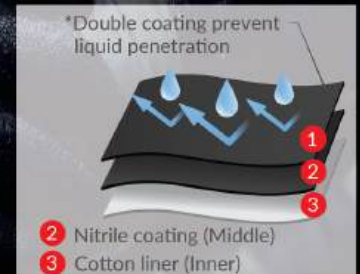
EN ISO 374-5: 2016



CT205

Chemical resistance

Excellent grip performance with nitrile micro granular coating improve job performance in heavy wet/oil condition



*Testing of gloves was carried out in accordance to SATRA TM438:2011- Whole hand grip using engine oil



BENEFITS

- Excellent grip performance in heavy oil/wet condition.
- Second palm coated layer acts against liquid penetration.
- Full coated for superior oil resistance.
- High abrasion resistance enhances durability and wear time.
- Good absorption of perspiration and good insulation against low heat with cotton lining.
- Outstanding dexterity for fine work.
- Superior fitting for long working hours.

FEATURES

- Micro granular surface finishing
- Nitrile rubber
- Cotton liner
- Double layer nitrile fully coated



PRODUCT SPECIFICATION

Packaging	• 12 Pairs per polybag • 10 Polybags per carton • 120 Pairs per carton	Sizes	• 8/M • 9/L • 10/XL
Length	300mm±5mm	Coating	Nitrile micro granular
Thickness	1.15mm (cuff)±0.2mm	Material	15-Gauge cotton liner
Colour	Black		

APPLICATIONS



STANDARDS





Excellent Chemical
Performance

CE118

Chemical Resistance

Excellent chemical resistance performance
with good grip

CE119

Chemical Resistance

Excellent chemical resistance performance
with good grip and extended length



BENEFITS

- Excellent chemical resistance to animal fats, oil, and solvents allows handling chemical works with confident.
- Honeycomb/ diamond texture finishing provide good grip in dry, wet and oily conditions.
- Bacteriostatic properties preserve cleanliness and hygiene.



380mm
length

Forearm protection
with extended length



FEATURES

- Flock-lined
- Premium grade neoprene rubber
- Straight cuff
- Smooth outer finishing
- AQL: 1.5



Flock-
lined

STANDARDS



STANDARDS



PRODUCT SPECIFICATION

Packaging

- 6 Pairs per polybag
- 10 Polybags per carton
- 60 Pairs per carton

Length

300mm $\pm$ 10mm (CE118)
380mm $\pm$ 10mm (CE119)

Thickness

0.75mm $\pm$ 0.07mm (CE118)
0.78mm $\pm$ 0.07mm (CE119)

Colour

Black

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

Neoprene

Material

Flock lined

APPLICATIONS



Machinery



Oil & Gas



Automotive



Chemical



Municipal
Services

Chemical Resistance Chart

This chemical chart is for reference use only we recommend on-site testing of all gloves and provide free samples to determine safe usage.

Chemical	Natural Rubber	Nitrile	Neoprene	PVC
Acetaldehyde	F	P	E	NR
Acetic acid	G	G	E	F
Acetone	G	NR	G	NR
Acetonitrile	F	NR	F	NR
Ammonium hydroxide <30%*	G	E	E	E
Amyl acetate	F	E	NR	P
Amyl alcohol	G	G	P	NR
Aniline	P	NR	G	F
Animal fats	P	E	E	G
Battery acids	G	E	E	E
Benzaldehyde	F	NR	NR	NR
Benzene	NR	P	NR	NR
Benzol chloride	P	NR	NR	NR
Butane	P	E	F	P
Butyl acetate	P	F	NR	NR
Butyl alcohol	E	P	E	G
Butyl cellusolve*	E	E	E	NR
Carbolic acid	P	P	E	G
Carbon disulfide	NR	NR	NR	NR
Carbon tetrachloride	NR	G	P	NR
Castor oil	E	E	E	E
Cellosolve acetate	G	G	F	NR
Cellosolve solvent	E	G	E	NR
Chlorobenzene	NR	NR	NR	NR
Chloroform	NR	F	F	NR
Chloronaphalens	NR	F	NR	NR
Chlorothene VG	NR	F	NR	P
Chromic acid	NR	F	F	G
Citric acid	E	E	E	E
Cottonseed oil	P	E	E	G
Creasol	P	G	G	F
Cutting oil	F	E	E	P
Cyclohexane	P	E	F	P
Cyclohexanol	P	E	E	G
Dibutyl phthalate	P	G	F	G

Chemical	Natural Rubber	Nitrile	Neoprene	PVC
Diethylamine	NR	F	P	NR
Di-isobutyl ketone	P	E	P	P
Dimethyl formamide (DMF)	E	NR	G	NR
Dimethyl sulfoxide (DMSO)	E	E	E	NR
Diocetyl phthalate (DOP)	P	G	G	NR
Dioxane	F	NR	NR	NR
Ethyl acetate	P	NR	F	NR
Ethyl alcohol	E	E	E	G
Ethylene dichloride	P	NR	NR	NR
Ethylene glycol	E	E	E	E
Ethyl ether	NR	E	E	NR
Ethylene trichloride	P	P	P	NR
Formaldehyde	E	E	E	E
Formic acid	E	F	E	E
Freon	NR	F	G	NR
Furfural	E	NR	G	NR
Gasoline	NR	E	P	P
Glycerine	E	E	E	E
Hexane	NR	E	E	NR
Hydraulic fluid petro. based	P	E	F	G
Hydraulic fluid ester based	P	P	P	P
Hydrazine 65%	G	E	E	E
Hydrochloric acid*	G	E	E	E
Hydrofluoric acid	G	E	E	E
Hydrogen peroxide	E	E	E	E
Hydroquinone	G	E	E	E
Isobutyl alcohol	E	E	E	F
Iso-octane	NR	E	E	P
Isopropyl alcohol*	E	E	E	G
Kerosene	P	E	E	F
Lactic acid	E	E	E	E
Lauric acid	G	E	E	F
Linoleic acid	P	E	E	G
Linseed oil	P	E	E	E

* Basic chemicals used for cleaning.

E Excellent Excellent for total immersion	G Good Good for total immersion	F Fair Good for accidental splash and intermittent contact	P Poor Accidental splash	NR Not recommended Not recommended for use
---	---	--	------------------------------------	--

Chemical	Natural Rubber	Nitrile	Neoprene	PVC
Maleic acid	P	E	E	G
Methyl acetate	P	P	G	NR
Methyl alcohol	E	E	E	G
Methylamine	E	E	G	E
Methylene bromide	NR	NR	NR	NR
Methylene chloride	NR	NR	NR	NR
Methyl cellosolve	P	F	E	
Methyl ethyl ketone (MEK)	G	NR	G	NR
Methylisobutyl ketone	F	P	NR	NR
Methyl methacrylate	P	P	NR	NR
Mineral oil	P	E	E	F
Mineral spirits	NR	E	G	F
Monoethanolamine	G	E	E	E
Morpholine	G	NR	P	NR
Muriatic acids	G	G	E	G
Naptha V.M & P.	NR	E	G	P
Nitric acid <30%	G	P	E	G
Nitric acid 70%	F	NR	G	F
Nitric acid red fuming	P	NR	NR	P
Nitric acid white fuming	P	NR	NR	P
Nitrobenzene	P	NR	NR	NR
Nitromethane	G	F	E	P
Nitropropane	E	NR	G	NR
Octyl alcohol	G	E	E	F
Oleic acid	P	E	E	F
Paint remover	F	G	G	P
Palmitic acid	G	G	E	G
Pentachlorophenol	P	E	E	F
Pentane	P	E	E	NR
Perchloric acid 60%	P	E	E	E
Potassium hydroxide <50%*	E	G	E	E
Printing ink	G	E	G	F
Propyl acetate	P	F	P	NR
Propyl alcohol	E	E	E	F
Perchloroethylene	NR	G	NR	NR
Phenol	G	NR	E	G
Phosphoric acid*	G	E	E	G
Picric acid	G	E	E	E
Propylene oxide	P	NR	NR	NR

* Basic chemicals used for cleaning.

Chemical	Natural Rubber	Nitrile	Neoprene	PVC
Rubber solvent	NR	E	G	NR
Sodium hydroxide <50%	E	G	E	G
Stoddard solvent	P	E	E	NR
Styrene*	NR	NR	NR	NR
Sulfuric acid 95%	NR	NR	F	G
Tannic acid	E	E	E	E
Tetrahydrofuran (THF)	NR	NR	NR	NR
Toluene	NR	G	P	NR
Toluene di-Isocyanate (TDI)	P	NR	NR	P
Trichlorethylene (TCE)	NR	G	P	NR
Tricrestyl phosphate (TCP)	G	E	F	F
Triethanolamine 85% (TEA)	G	E	E	E
Tung oil	NR	E	E	F
Turbine oil	P	G	E	F
Turpentine	P	E	G	P
Vegetable oil	P	E	E	F
Xylene	NR	G	P	NR

E **Excellent**
Excellent for total immersion

G **Good**
Good for total immersion

F **Fair**
Good for accidental splash and intermittent contact

P **Poor**
Accidental splash

NR **Not recommended**
Not recommended for use

Natural Rubber - Made from rubber trees

Nitrile - Form of plastic, more puncture and chemical resistant

Neoprene - Also known as polychloroprene synthetic rubber

Vinyl (PVC) - Form of plastic (latex free)

Note: This chemical resistance chart is presented as a guide based on glove materials. This does not take into account the permeability of gloves, chemical combinations, temperature, length of time that the glove is in contact with the chemical and thickness of the glove. These factors will alter or affect the performance of the glove.

HACCP and HALAL Certification

Serve the food industry and Muslim's communities HALAL - oriented businesses with high standard of safety and hygienic.

HACCP

HACCP ('Hazard Analysis Critical Control Point') is a systematic preventive approach to food safety from biological, chemical, and physical hazards in production processes that can cause the finished product to be unsafe and designs measures to reduce these risks to a safe level. Simply said, HACCP is a food safety management system.



Halal under the Malaysian system, products must be made from materials or ingredients allowed under Islamic law. Halal foods are lawful and permitted to be eaten by Muslims. Muslims are not allowed to consume foods or beverages that are Haram (forbidden) such as pork, animal fats, and alcohol beverages.



Excia's HACCP and HALAL certificate was issued by Pearl Certification Sdn Bhd and Department of Islamic Development Malaysia (JAKIM) respectively.



What is the difference between Food Safe Test and HACCP?

	Food safe test	HACCP
Focus	Testing	Process/ System - CCP (Critical control points)
Coverage	Finished products sampling	Product production process
Standard	EN 1186-1:2002/ FDA Food contact testing (Overall migration)	HACCP codex alimentarius (Food hygiene)
Objective	To ensure safe contact with foods without contamination.	To prevent, reduce and eliminate the occurrence of food safety hazards.
Logo		HACCP

Note: Products that produced under HACCP not necessary pass food safe test.

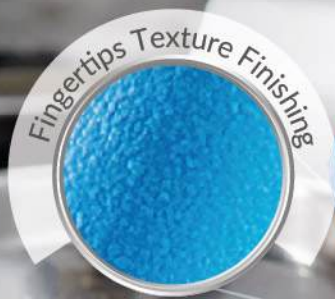
Excia's disposable glove 9300 and 9410 are produced and packed in an HACCP system certified facility. Both HALAL gloves are certified by JAKIM.



HACCP



6 052-03/2023



9300 Disposable

Significant odour-free process brings comfort to work



BENEFITS

- Premium grade nitrile provides superior protection against harmful chemical splashes.
- Unique fingertips texture enhances grip and tactile sensitivity for safer and efficient process in wet or dry.
- Superior fitting to prevent hand fatigue.
- The process of polymer coating makes glove odorless and also for easy donning and doffing.
- Reduce the risk of contamination with silicon-free feature.

FEATURES

- Premium grade nitrile
- Fingertips textured finish
- Ergonomic design
- Chlorinated
- Silicon-free
- Powder-free
- AQL 1.5
- Standard cuff 9.5"
- Beaded cuff
- Category III with food safe



PRODUCT SPECIFICATION

Packaging	• 100 pcs per box • 10 boxes per carton • 1000 pcs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL
Length	240mm ± 5mm	Coating	Nitrile
Thickness	0.05mm ± 0.02mm 2mil ± 1mil (Palm) 0.07mm ± 0.02mm 2.8mil ± 1mil (Finger)	Material	-
Colour	Blue	Weight (PCS)	3.5g ± 0.2g (M size)

APPLICATIONS



STANDARDS





9410

Disposable

Skin friendly with fingertips textured finishing & accelerator free

Fingertips Texture Finishing



BENEFITS

- Premium grade nitrile provides superior protection against harmful chemical splashes.
- Unique fingertips texture enhances grip and tactile sensitivity for safer and efficient process in wet or dry.
- Accelerator free offer protection from type I & type IV skin allergy.
- Superior fitting to prevent hand fatigue.
- Chlorination process provides more comfort and reduce tackiness.
- Reduce the risk of contamination with silicon-free feature.

FEATURES

- Premium grade nitrile
- Fingertips textured finish
- Skin friendly
- Ergonomic design
- Chlorinated
- Silicon-free
- Powder-free
- AQL 1.5
- Standard cuff 9.5"
- Beaded cuff
- Category III with food safe



PRODUCT SPECIFICATION

Packaging

- 100 pcs per box
- 10 boxes per carton
- 1000 pcs per carton

Length

240mm ± 5mm

Thickness

0.08mm ± 0.02mm | 3.1mil ± 1mil (Palm)
0.11mm ± 0.02mm | 4.3mil ± 1mil (Finger)

Colour

Blue

Sizes

- 7/S
- 8/M
- 9/L
- 10/XL

Coating

Nitrile

Material

-

Weight (PCS)

4.60g ± 0.2g (M size)

APPLICATIONS



STANDARDS





9500 Disposable

Unique full texture finishing for enhanced grip & work efficient in wet/ dry condition

9600 Disposable

Extended length with fingertips textured finishing provide extra protection

BENEFITS



- Premium grade nitrile provides superior protection against harmful chemical splashes.
- Unique full/ fingertips texture further enhances grip and tactile sensitivity for safer and efficient processes in wet or dry.
- Superior fitting to prevent hand fatigue.
- Chlorination process provides more comfort and reduce tackiness.
- Reduce the risk of contamination with silicon-free feature.



Extra
55mm
length

Extended length
for extra protection

FEATURES



9500 Superior Grip

- Premium grade nitrile
- Full/fingertips textured finish
- Ergonomic design
- Chlorinated
- Silicone-free
- Powder-free
- AQL 1.5
- Beaded cuff
- Category III with food safe



9600

PRODUCT SPECIFICATION

Packaging	• 100 pcs per box • 10 boxes per carton • 1000 pcs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL
Length	240mm ± 5mm (9500) 295mm ± 5mm (9600)	Coating	Nitrile
Thickness	0.10mm ± 0.02mm 3.9mil ± 1mil (palm) 0.12mm ± 0.02mm 4.7mil ± 1mil (finger)	Material	-
Colour	Blue	Weight (PCS)	5.2g ± 0.2g (M size) (9500) 6.7g ± 0.2g (M size) (9600)

APPLICATIONS



STANDARDS



9650

Disposable

Nitrile disposable glove with finger textured for superior grip performance



BENEFITS

- Premium grade nitrile provides superior protection against harmful chemical splashes.
- Finger textured enhances grip and tactile sensitivity for handling task in wet or dry conditions.
- Superior fitting to prevent hand fatigue.
- Beaded cuff prevent water drop into arms.
- Reduce the risk of contamination with food safe certified.

FEATURES

- Premium grade nitrile
- Finger textured
- Ergonomic design
- Beaded cuff
- Powder-free
- AQL 1.5
- Food safe
- Chlorinated

PRODUCT SPECIFICATION

Packaging

- 100 pcs per box
- 10 boxes per carton
- 1000 pcs per carton

Length

240mm $\pm$ 10mm

Thickness

0.12mm $\pm$ 0.02mm | 4.7mil $\pm$ 1mil (Palm)
0.16mm $\pm$ 0.03mm | 6.2mil $\pm$ 1.1mil (Finger)

Colour

Violet Blue

Sizes

- 6/XS
- 7/S
- 8/M
- 9/L
- 10/XL
- 11/XXL

Coating

Nitrile

Material

-

Weight (PCS)

6.2g $\pm$ 0.3g (M size)

APPLICATIONS



STANDARDS

CE 2777

EN ISO 374-1:2016
TYPE B



EN ISO 374-5:
2016



9000

Disposable

Extended length with full textured finishing provides extra protection and enhanced work efficiency



BENEFITS

- Premium grade nitrile with extra thickness to provides superior protection against harmful chemical splashes.
- Extra length up to arm area provide additional protection.
- Unique full texture further enhances grip and tactile sensitivity for safer and more efficient processes in wet or dry.
- Superior fitting to prevent hand fatigue.
- Chlorination process provides more comfort and reduce tackiness.
- Beaded cuff prevent water drop into arms.
- Reduce the risk of contamination with food safe certified.

FEATURES

- Premium grade nitrile
- Full textured finish
- Ergonomic design
- Powder-free
- AQL 1.5
- Beaded cuff
- Food safe
- Chlorinated

400mm length

Extended length for extra protection



PRODUCT SPECIFICATION

Packaging	• 50 pcs per box • 10 boxes per carton • 500 pcs per carton	Sizes	• 7/S • 8/M • 9/L • 10/XL • 11/XXL
Length	400mm $\pm$ 5mm	Coating	Nitrile
Thickness	0.18mm $\pm$ 0.03mm 7.0mil $\pm$ 1.1mil (Palm) 0.21mm $\pm$ 0.03mm 8.3mil $\pm$ 1.1mil (Finger)	Material	-
Colour	Dark Blue	Weight (PCS)	13g $\pm$ 0.2g (M size)

APPLICATIONS



STANDARDS



Machinery Industry Series: 7 Challenges & Our Solutions

1 CHALLENGE

Handling Slippery Object

SOLUTION

Grip Performance



2 CHALLENGE

Handling Sharp-Edged Object

SOLUTION

Cut Resistance



3 CHALLENGE

Handling Chemical Liquid

SOLUTION

Chemical Resistance



4 CHALLENGE

Handling Oil

SOLUTION

Oil Resistance



5 CHALLENGE

Handling Food Processing

SOLUTION

Contamination-Free/ Food Safe



6 CHALLENGE

Handling Small Part/ Object

SOLUTION

Dexterity Performance



7 CHALLENGE

Machine Cleaning & Maintenance

SOLUTION

Chemical Hazards Protection





1.

Handling Slippery Object

CHALLENGE

Handling Slippery Object

Poor grip strength due to unsuitable gloves is the cause of many preventable workplace accidents, particularly when handling slippery objects contaminated with oils or liquids that reduce surface friction. Such accidents result in worker injuries, object damage, high repair/ replacement costs, costly downtime, and lost productivity.

SOLUTION

Grip Performance

Excia Machinery Industry Series Gloves are designed to provide maximum grip performance with micro granular nitrile material that significantly increases the surface friction of contact points in light oil & wet conditions compared to flat nitrile coating. Foam nitrile with double palm coating provides a better grip in light oil and wet condition reducing injury risk and enhancing work performance.

RECOMMENDED PRODUCT

Micro-granular coating



Foam nitrile with double palm coating



*Testing of glove was carried out in comparison with well known brand

*Testing of gloves was carried out in accordance to SATRA TM438:2011 - Whole hand grip using engine oil



2. Handling Sharp-Edged Object

CHALLENGE

Handling Sharp-Edged Object

Handling sharp objects poses safety concerns in many workplaces. Accidents are inevitable due to machine failure or worker fatigue. Insufficient cut protection puts workers at risk of serious injuries, resulting in lost productivity and downtime. In serious cases, medical attention may be required, incurring high medical costs and even long-term disability that impacts the worker and employer significantly.

SOLUTION

Cut Resistance

Excia Machinery Industry Series Gloves provide cut level D, E and F protection for medium risk (D) to high risk (E, F) environments. Cut level D protection for medium risk such as machinery operation, metal handling, light glass handling, assembly and maintenance work. Level D protection is effective than level A to C in preventing cuts; and is more practical and cost-effective than levels E and F for these environments. While levels E and F offer stronger protection for high risk environment such as metal fabrication, machining, paper production and glass manufacturing. Choosing the appropriate level of protection can reduce the risk of injuries and minimize operating costs.

RECOMMENDED PRODUCT

Cut level D protection



TX536

Cut level E protection



TU550

Cut level F protection



TX537



TT520



3. Handling Chemical Liquid

CHALLENGE

Handling Chemical Liquid

Direct exposure to hazardous chemicals can cause severe health risks and injuries such as skin irritation, rash, chemical burns, and permanent scarring. Some chemicals can be harmful to the body's internal organs, leading to long-term health impacts and affecting the quality of life. Chemical exposure varies depending on the type, concentration, and duration of exposure, and can result in lost productivity and high medical costs for companies.

SOLUTION

Chemical Resistance

Excia Machinery Industry Series gloves offer superior chemical protection with premium neoprene and nitrile to provide an EN374 Type A chemical-resistance performance. Type A gloves offer better chemical protection in handling heavy chemical conditions than Type B gloves. CT037 with extra length provide additional arm length protection when handling chemical. Hence, choosing suitable chemical-resistant gloves can reduce the risks of health hazards and lead to better productivity.

RECOMMENDED PRODUCT



Excellent Chemical
Performance

Type A certified
(6 chemicals)



CT135



CT037



CE118



4.

Handling Oil

CHALLENGE

Handling Oil

Poor performance against liquid penetration can result in harmful health effects for workers. Chronic exposure to oils can pose serious health hazards to workers which range from skin irritation to cancer. When workers are not protected from oil exposure, they may have to take time off work due to illnesses or injuries, leading to low productivity and high costs for companies.

SOLUTION

Oil Resistance

Excia Machinery Industry Series gloves are available in light, moderate, and heavy variants. Our Double Coating Gloves provide better protection against liquid penetration and reduce the risk of direct contact with oils compared to single-coating gloves. Graphene series offer superior protection in oily condition with double coating of graphene and pvc compared to normal pvc coating. These gloves protect against chronic exposure to oil, reducing health risks and improving productivity.

RECOMMENDED PRODUCT

Light oil
(Double coating)



Medium to heavy oil
(Double coating)



Heavy oil
(Double coating)





5.

Handling Food Processing

CHALLENGE

Handling Food Processing

Food contamination is a serious public health concern, with millions falling ill and hundreds of thousands dying each year. Using gloves not designed for food handling can result in contamination, serious health risks and death. Eventually, this could lead to loss of customers and business closure. This can also result in high costs due to recalls, penalties, legal fees, and damage to reputation.

SOLUTION

Contamination-Free/ Food Safe

Excia Machinery Industry Series gloves are tested by recognised Notified Body for food handling to prevent the spread of harmful bacteria and contaminants that can cause illness or even death. Our disposable glove 9300 is halal certified and meets Hazard Analysis and Critical Control Points (HACCP) requirements. This reduces the risk of contamination and improves work efficiency.

RECOMMENDED PRODUCT

Food-safe certified



CT135

Thickness
0.40mm



CT008

Thickness
0.28mm



9300

Finger
Thickness
0.07mm

HACCP
HALAL (JAKIM)



9500

Finger
Thickness
0.12mm



6.

Handling Small Part/ Object

CHALLENGE

Handling Small Part/ Object

When handling small objects, poorly fitting gloves can cause hand fatigue, which can result in reduced efficiency and productivity, leading to increased costs for the company.

SOLUTION

Dexterity Performance

Excia Machinery Industry Series gloves feature a form-fitting, ergonomic design that fits the user's hands perfectly, while the lightweight material provide additional dexterity and tactile sensitivity, This allows for increased precision when handling small objects, reducing the chances of mishandling and human error. Ultimately, choosing the right gloves can improve efficiency and productivity.

RECOMMENDED PRODUCT

Lightweight



GX505



GX518

Ergonomic design



9300



9500

Finger
Thickness
0.07mm

Finger
Thickness
0.12mm



7. Machine Cleaning & Maintenance

CHALLENGE

Machine Cleaning & Maintenance

Without proper protective clothing and gloves, exposure to harmful chemicals in machinery processes can cause skin and respiratory problems and have long-term health effects. When working for long hours, unsuitable protective gear in hot and confined environments can lead to excessive sweating, which can cause discomfort and decrease work productivity.

SOLUTION

Chemical Hazards Protection

Excia Machinery Industry Series Protective Clothing is made using professionally selected high-breathability Microporous PE Laminate material and provides a Type 6B and 5B protection rating which protects against solid particulates (Type 5B) and liquid chemicals (Type 6B).

Together with the protective clothing, Excia also offers the CT135 gloves, which are Type A certified for 6 different chemicals, it will be able to offer complete body and hand protection to carry out their work safely and effectively in challenging machinery working conditions.

RECOMMENDED PRODUCT



CT135

6 chemicals
Type A certified



T5-200

Type 6B and 5B certified
standard, high breathability



- 1 Microporous polyethylene film
- 2 Nonwoven inner layer

Protective Glove Selection Guide

How to choose the glove based on application

					Grip
Category	Product Model	Coating	Type of Coating	Material	Dry
General	GX505	NexPolymer™	Palm	Nylon + Spandex	●
General	GX518	NexPolymer™	Palm	Nylon + Spandex	●
General	GT505	Nitrile micro granular	Palm	Nylon	●
General	GT529	Foam NBR	Palm	Polyester	●
General	GT337	Foam NBR	All (Whole hand only)	Polyester	●
Cut	TX536	NexPolymer™	Palm	TungFlex™	●
Cut	TX537	NexPolymer™	Palm	TungFlex™	●
Cut	TT515	Foam NBR	Palm	HPPE + Stainless Steel + Spandex+ Nylon	●
Cut	TT520	Flat NBR	Palm	HPPE + Stainless Steel	●
Cut	TU540	PU	Palm	HPPE + Glass Fiber	●
Cut	TU550	PU	Palm	HPPE + Glass Fiber	●
Chemical	CP251	Graphene PVC	All	Cotton	●
Chemical	CP252	Graphene PVC	All	Cotton	●
Chemical	CP013	PVC	All		●
Chemical	CT135	Flat NBR	All	Cotton Flock	●
Chemical	CT037	Flat NBR	All	Cotton Flock	●
Chemical	CT008	Flat NBR	All		●
Chemical	CT205	Nitrile micro granular	All	Cotton	●
Chemical	CE118	Neoprene	All	Cotton Flock	●
Chemical	CE119	Neoprene	All	Cotton Flock	●
Disposable	9300	Flat NBR	All		●
Disposable	9410	Flat NBR	All		●
Disposable	9500	Flat NBR	All		●
Disposable	9600	Flat NBR	All		●
Disposable	9650	Flat NBR	All		●
Disposable	9000	Flat NBR	All		●

The above information is for reference only, actual performance might differ in different applications, working environments, actual usage.

		Handling		Protection				Machinery Industry Application	
	Oily	Small Object	Large Object	Cut	Oil	Chemical	Food Safe	Handling Oily Object (Small)	Handling Oily Object (Large)
	● ●	● ●	●				●	●	
	● ●	● ●	●				●	●	
	● ● ●	●	●					● ●	●
	● ●	●	●					●	
	● ●	●	●					● ●	
	● ●	● ●	●	D			●	●	
	● ●	● ●	●	E			●	●	
	● ●	●	●	D				●	
	●	● ●	●	F				●	
	● ●	● ●	●	C				●	
	● ●	● ●	●	D				●	
	● ●	●	● ●		●	●		●	●
	● ●	●	● ●		●	●		●	●
	●	●	●		●	●		●	
	●	●	●		● ●	● ●	●	●	●
	●	●	●		● ●	● ●	●	●	●
	●	●	●		●	●	●	●	
	● ● ●	●	● ●		● ●	● ●		●	● ●
	●	●	●		● ● ●	● ● ●	●	●	●
	●	●	●		● ● ●	● ● ●	●	●	●
	●	●			●	●	●	●	
	●	●			●	●	●	●	
	●	●			●	●	●	●	
	●	●			●	●	●	●	
	●	●			●	●	●	●	
	●	●			●	●	●	●	
	●	●			●	●	●	●	

● = Fair ● ● = Good ● ● ● = Excellent Blank = Not Recommended



Body Protection

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T5-200

(Stitched seam)
Protective Clothing

High comfortability, durable & protection
against chemical splash & dust

T5-200

(Bound seam)
Protective Clothing

High comfortability, durable & extra
protection against chemical splash & dust

BENEFITS

- Made of quality laminated microporous material for better comfortability and breathability.
- Elasticized hood, ankles, and wrists for convenience and freedom of movement. The fabric was made to withstand strong tensile strength applied during work.
- Unique stitching/bound seams method provides protection against ingress of harmful particles.
- Safer work environment with anti-static garment that prevents electrostatic charging.
- Two-way front zipper with re-sealable storm flap and attached thumb loops for extra convenience and protection from contaminants.



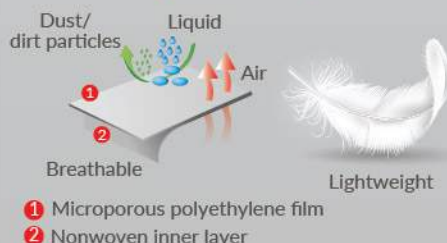
FEATURES

- Professionally selected materials
- Liquid (Chemical) repellency
- High breathability
- Designed for comfort
- Infective agents repellency
- Anti-static
- Soft-touch



Type 6B and 5B certified standard

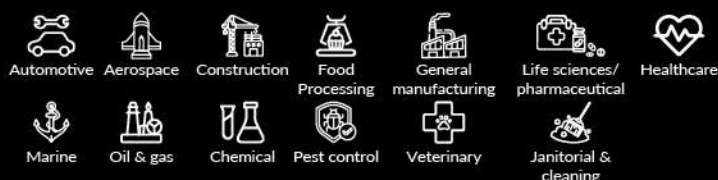
High breathability



PRODUCT SPECIFICATION

Packaging	Individual polybag (40pcs per carton)	Size	S-XXXL
Weight	55gsm	Colour	White
Seam	Stitched (T5-200-SW-LA0) Bound (T5-200-BW-LA1)	Product Code & Style	T5-200-SW-LA0 / Stitched seam standard T5-200-BW-LA1 / Bound seam standard
Fabric	Microporous PE laminate		

APPLICATIONS



STANDARDS



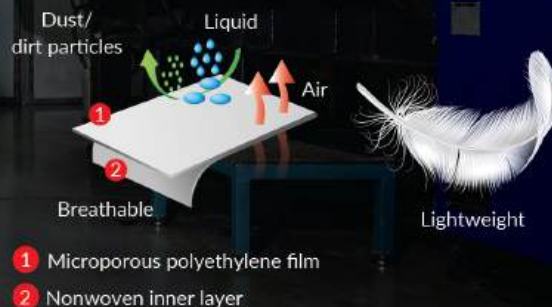
T5-200

(Breathable back)
Protective Clothing

High comfortability with
breathable back for long
working hour



High breathability



BENEFITS

- Made of quality laminated microporous material for better comfortability and breathability.
- The back is made of 35g blue SMS breathable fabric, for extra comfortability and breathability, suitable for summer and hot working environment.
- Elasticized hood, ankles, and wrists for convenience and freedom of movement. The fabric was made to withstand strong tensile strength applied during work.
- Unique bound seams method provides protection against ingress of harmful particles.
- Safer work environment with anti-static garment that prevents electrostatic charging.
- Two-way front zipper with re-sealable storm flap and attached thumb loops for extra convenience and protection from contaminants.

FEATURES

- Professionally selected materials
- Liquid (Chemical) repellency
- High breathability
- Designed for comfort
- Infective agents repellency
- Anti-static
- Soft-touch



PRODUCT SPECIFICATION

Packaging	Individual polybag (40pcs per carton)	Size	S-XXXL
Weight	55gsm	Colour	White + Blue
Seam	Bound	Product Code & Style	T5-200-BW-LB1/Bound seam comfort (Breathable back)
Fabric	Microporous PE laminate, 55gsm + SMS, 35gsm		

APPLICATIONS



T3-300

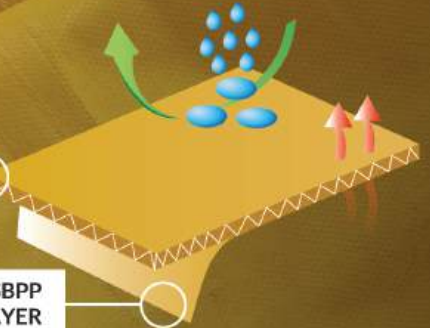
Protective Clothing

High durability and strong chemical protection



POLYETHYLENE (PE)
BARRIER LAYER

MELTBLOWN & SBPP
NON - WOVEN INNER LAYER



Double cuff



Double layer zip flap

BENEFITS

- Multi-layer non-woven barrier laminate fabric offer a high level of barrier to the permeation of inorganic chemicals and infective agents.
- The fabric provides a good level of comfort, strength and durability.
- Provides an excellent barrier to liquids under high pressure.
- T3-300 offer optimum body fit, allowing comfortable, convenient and freedom of movement.
- Double layer zip flap with 1 way inner zipper and 2 way outer zipper (except T3-300-TY-EA0) and reusable double sided tape which provides maximum comfort and protection allowing safe donning and doffing during down time.
- Stitched and Taped Seams - Internal stitching which is overtaped to offer increased strength and an effective barrier to liquids and particulates.
- The elasticsation around the hood, wrist and ankles is fully enclosed to maximize comfort and avoid any shedding of fibers into a manufacturing process.

- Thumb or finger loops maintain a safe sleeve fit in all working positions.
- Double layer protection for knee area. (except T3-300-TY-EA0)

FEATURES

- Professionally selected materials
- Liquid (Chemical) repellency
- Designed for comfort
- Infective agents repellency
- Anti-static



PRODUCT SPECIFICATION

Packaging	Individual polybag (25pcs per carton)	Size	S-XXXL
Weight	70gsm	Colour	Yellow
Seam	Stitched & Taped	Product Code & Style	T3-300-TY-EA0 / Standard plus T3-300-TY-EGO / Standard plus, double cuffs T3-300-TY-EFO / Standard plus, integrated socks
Fabric	Unique nonwoven composite fabrics (Polyethylene (PE) + meltblown polypropylene film)		

APPLICATIONS



STANDARDS



T3-400

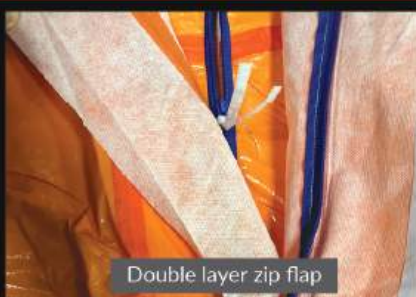
Protective Clothing

Highly visible, durability and strong chemical protection

COMPOSITE LIQUID RESISTANT BARRIER FILM

CORE OF CHEMICAL BARRIER MATERIAL

HEAVY WEIGHT STRONG SPUNBONDED POLYPROPYLENE INNER LAYER



Double layer zip flap



Double cuff

BENEFITS

- Multi-layer non-woven barrier laminate fabric offer a high level of barrier to the permeation of inorganic chemicals and infective agents.
- The fabric provides a good level of comfort, strength and durability.
- Provides an excellent barrier to liquids under high pressure.
- T3-400 offer optimum body fit, allowing comfortable, convenient and freedom of movement.
- Double layer zip flap with 1 way inner zipper and 2 way outer zipper (except T3-400-TO-VA0) and reusable double sided tape which provides maximum comfort and protection allowing safe donning and doffing during down time.
- Stitched and Taped Seams - Internal stitching which is overtaped to offer increased strength and an effective barrier to liquids and particulates.
- The elastication around the hood, wrist and ankles is fully enclosed to maximize comfort and avoid any shedding of fibers into a manufacturing process.

- Thumb or finger loops maintain a safe sleeve fit in all working positions.
- Double layer protection for knee area. (except T3-400-TO-VA0)
- Highly visible bright orange colour for improved worker safety.

FEATURES

- Professionally selected materials
- Liquid (Chemical) repellency
- Designed for comfort
- Infective agents repellency
- Anti-static



PRODUCT SPECIFICATION



Packaging	Individual polybag (20pcs per carton)	Size	S-XXXL
Weight	155gsm	Colour	Orange
Seam	Stitched & Taped	Product Code & Style	T3-400-TO-VA0 / Standard plus T3-400-TO-VG0 / Standard plus, double cuffs T3-400-TO-VF0 / Standard plus, integrated socks
Fabric	Unique nonwoven composite fabrics (Polyethylene and EVOH + spunbonded polypropylene)		

APPLICATIONS



STANDARDS

CE0493



F-220

Chemical Safety Boot

Chemical safety boot with excellent slip resistance performance



BENEFITS

- The boot sole provides excellent slip resistance on ceramic tile floor with sodium laurel sulphate lubricant and on steel floor with glycerol lubricant.
- Good chemical resistance against oil and corrosion, inorganic acids and alkalis.
- Polyester lining offer comfort and breathable.
- Stainless steel toe cap for impact resistance and stainless steel mid-sole for puncture resistance.
- Antistatic feature minimise electrostatic build up by dissipating electrostatic charges.



FEATURES

- Puncture resistance
- Impact resistance
- Slip resistance
- Fuel and oil resistance
- Chemical resistance
- Antistatic resistance

PVC Polyester material

Textile Lining

Steel Toe Cap

Steel Midsole



Rubber/Nitrile



PRODUCT SPECIFICATION

Packaging	6 Pairs per carton	Size	EUR 36-47
Height	380mm ± 5mm	Material	Toe cap: Steel Midsole: Steel Upper: PVC Inner lining: Polyester Sole: Rubber/Nitrile
Weight	2.2-2.4kg (Per pair)		
Colour	Green/Orange/Yellow/Black		

APPLICATIONS



Oil & Gas



Chemical



Construction



Food Processing



Husbandry



Mining



Manufacturing



Electric power



Metallurgy

STANDARDS

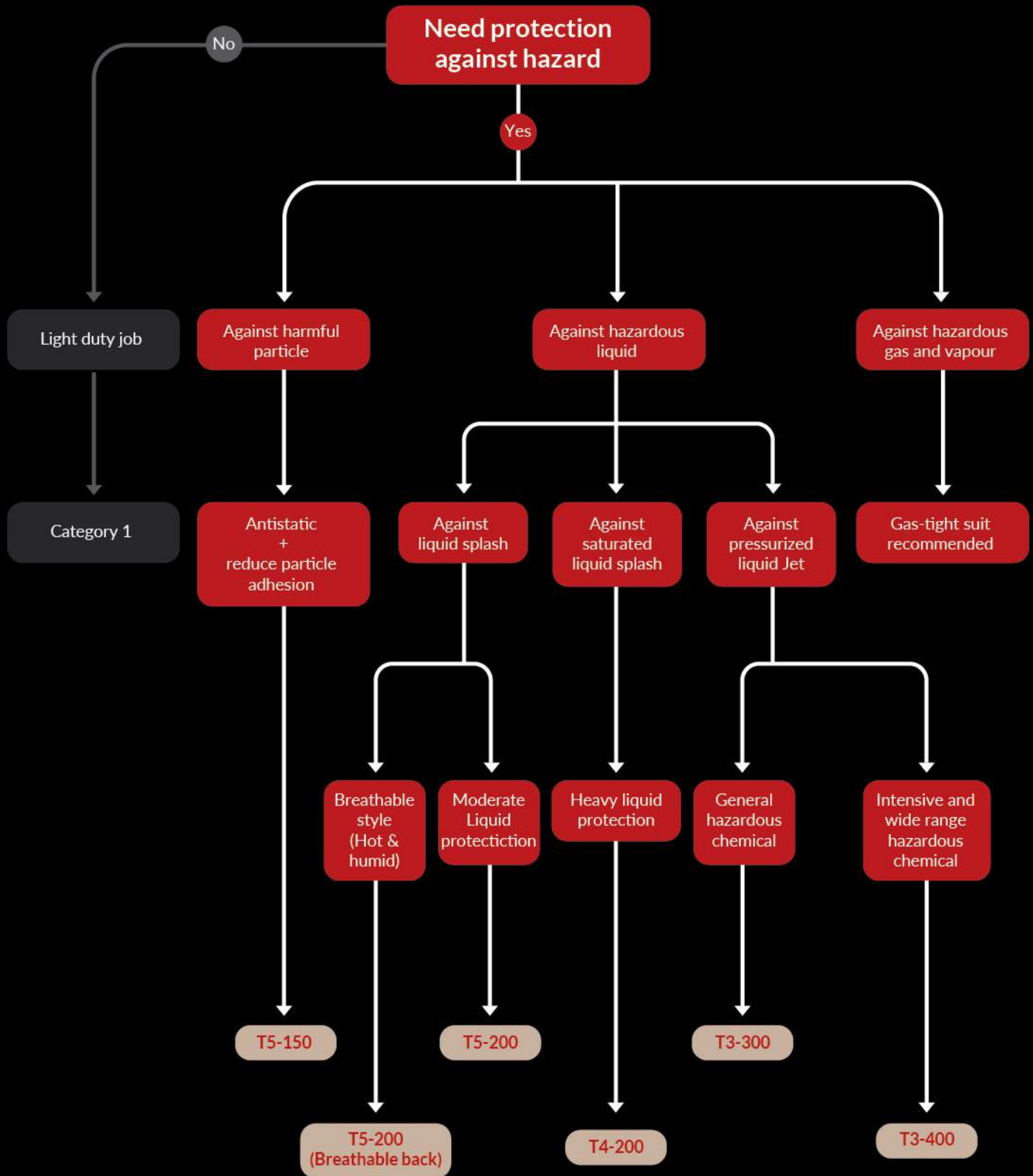
CE 2575



Class II
S5 SRC

Protective Clothing Selection Guide

How to choose the protective clothing based on type of protection



EN Standard – Protective Glove

CE Category European Directive 89/686/EEC

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



EN ISO 21420:2020 General Requirements for Protective Gloves (EN 420 - Old standard)

- Technical information*
- Glove markings
- Sizes
- Level of dexterity (1 to 5)
- Innocuousness of the glove

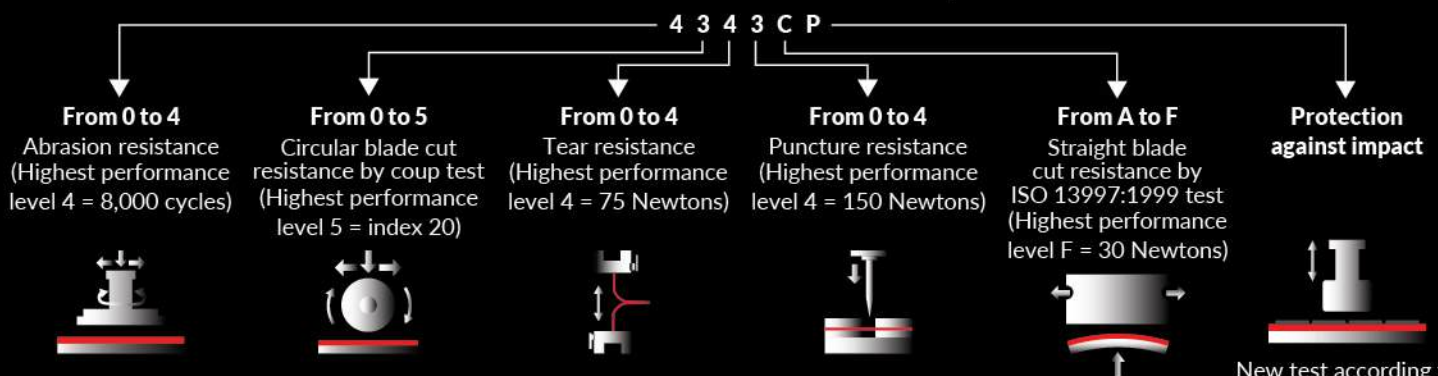
*Printed on the packaging or on the user instruction of EXCIA gloves. For further details, contact your distributor or visit the website.

EN 388:2016 Protection Against Mechanical Risk

EN 388:2016



Risk	Low		Medium		High	
EN 388:2003	1	2	3	4	5	
EN 388:2016	A	B	C	D	E	F



EN 388:2016+A1:2018 Levels are based upon the table below:

Abrasion, Blade cut resistance, Tear resistance & Puncture resistance performance level:

Performance Level	1	2	3	4	5
Abrasion resistance (cycles to failure)	100	500	2000	8000	N/A
Circular blade cut resistance by coup test (minimum cut resistance index)	1.2	2.5	5.0	10	20
Tear resistance (lowest peak force/ N)	10	25	50	75	N/A
Puncture resistance (lowest peak force/ N)	20	60	100	150	N/A

TDM cut resistance performance level:

Test	Level A	Level B	Level C	Level D	Level E	Level F
Straight blade cut resistance by ISO 13997:1999 test (TDM) (lowest peak force/ N)	2	5	10	15	22	30

New test according to EN 13594 : 2015 standard which allows protection against impacts to be claimed. If the glove passes the test, the letter P is added after the five digits under the pictogram.

X: Test not carried out or not applicable

O: The glove falls below the minimum quality level for the specified individual hazard

EN 1186 Food Safe

EN 1186 is the European standard that needs to be passed for a glove, or any other piece of equipment, to be able to safely come into contact with food.

EN 1186 is in place to govern which materials can be used in gloves, and also to limit the release of trace amounts of plastics that may be harmful to humans into food, with two main limits that must be adhered to:

Overall migration limit (OML): The maximum amount of non-volatile substances that can be released into food.

Specific migration limit (SML): The maximum amount of metal that can be released into food.

There are two test: **Glove Materials:** To ensure glove is only made with substances listing in EU Regulation 10/2011.

Migration Testing: To ensure meet the migration limits mentioned above.



EN ISO 374-1:2016 Protection Against Chemical Risk and Micro-organism

EN ISO 374-1 / TYPE A



U V W X Y Z

Resistance to penetration EN 374-2

Breakthrough time ≥ 30 min for at least **6 chemicals** on the list (EN 16523-1)

EN ISO 374-1 / TYPE B



X Y Z

Resistance to penetration EN 374-2

Breakthrough time ≥ 30 min for at least **3 chemicals** on the list (EN 16523-1)

EN ISO 374-1 / TYPE C



Resistance to penetration EN 374-2

Breakthrough time ≥ 10 min for at least **1 chemicals** on the list (EN 16523-1)

List of test chemicals specified in EN ISO 374-1:2016

A Methanol	M Nitric acid 65%
B Acetone	N Acetic acid 99%
C Acetonitrile	O Ammonia 25%
D Dichloromethane	P Hydrogen peroxide 30%
E Carbon disulphide	S Hydrogen fluoride 40%
F Toluene	T Formaldehyde 37%
G Diethylamine	
H Tetrahydrofuran	
I Ethylacetate	
J n-Heptane	
K Sodium hydroxide 40%	
L Sulphuric acid 96%	

It is based on three test methods:

- Penetration test in accordance with standard EN 374-2:2014
- Permeation test in accordance with standard EN 16523-1:2015 which replaces standard EN 374-3
- Degradation test in accordance with standard EN 374-4:2019

Degradation test according to EN 374-4 is undertaken without performance level requirement

EN 374-5:2016 Protection Against Micro-organisms

The gloves must pass the penetration resistance test EN 374-2

EN ISO 374-5



For gloves protecting against bacteria and fungi.

If virus protection is claimed, glove has to pass ISO 16604 method B (Phi-X174 bacteriophage)

EN ISO 374-5



For gloves protecting against bacteria and fungi and viruses.

VIRUS

EN 421 Protection Against Radioactive Contamination And Ionising Radiation

EN 421



WITH NO PERFORMANCE LEVELS

ISO 18889:2019 Protection Against Pesticide

EN ISO 18889



Resistance to diluted pesticides / no mechanical risk

EN ISO 18889



Resistance to diluted and concentrated pesticides/ mechanical risk

EN ISO 18889



Re-entry tasks

EN 1149-1 Antistatic Properties

EN 1149-1



Tested level of glove surface resistivity. Measured in ohms/ square (Ω), this indicates the capacity of the glove to disperse via a dissipative and/ or conductive effect the accumulated static electricity discharges on the operator's

EN 511 Protection Against Cold

EN 511



3 2 1

- **0 or 1** Water permeability
- **From 0 to 4** Contact cold resistance
- **From 0 to 4** Convective cold resistance

EN 407 Protection Against Heat

EN 407



X 2 X X X X

- **From 0 to 4** Resistance to large quantities of molten metal
- **From 0 to 4** Resistance to small drops of molten metal
- **From 0 to 4** Radiant heat resistance
- **From 0 to 4** Convective heat resistance
- **From 0 to 4** Contact heat resistance
- **From 0 to 4** Limited flame spread

EN Standard – Protective Clothing

Current European "Types" of Chemical Protective Clothing

EN 943-1 & 2 TYPE 1	Gas Tight Chemical Protective Clothing	Protection against liquid and gaseous chemicals, aerosols, and solid particulates.	 TYPE 1
EN 943-1 TYPE 2	Non Gas Tight Chemical Protective Clothing	Retain positive pressure to prevent dust, liquids, and vapors.	 TYPE 2
EN 14605 TYPE 3	Liquid Tight Protective Clothing	Protect against strong and direct jets of liquid chemicals.	 TYPE 3
EN 14605 TYPE 4	Spray Tight Protective Clothing	Protect against saturation of liquid chemicals.	 TYPE 4
EN ISO 13982-1 TYPE 5	Dry Particulate Protective Clothing	Protect the full body against airborne solid particulates.	 TYPE 5
EN 13034 TYPE 6	Light Spray Protective Clothing	Limited protection against a light spray of liquid chemicals.	 TYPE 6

Additional Standards

EN 1073-1**	Radioactive particulate Protective Clothing		 EN 1073-1
EN 1073-2**	Radioactive particulate Protective Clothing		 EN 1073-2
EN 14126	Protective clothing against infective agents	Add "-B" after "Type TYPE" [such as TYPE 3-B] to indicate passing the European standard.	 EN 14126
EN 1149-5	Anti-static Protective Clothing		 EN 1149
DIN 32781	Protective Clothing against pesticides.		 DIN 32781
EN ISO 14116	Limited flame spread Protective Clothing		 EN ISO 14116 INDEX 1/0/0
EN 12941	Respiratory protective devices	Powered filtering devices incorporating a helmet or a hood.	 EN 12941
EN 14594	Respiratory protective devices	Powered filtering devices incorporating a helmet or a hood.	 EN 14594

* Type approvals do not necessarily apply to accessories. Always refer to the garment label and instructions for use document which will indicate the protection level offered.

** Gives no protection against radioactive radiation.

*** Always ensure the garment and wearer are properly grounded.

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