



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



PPE³
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

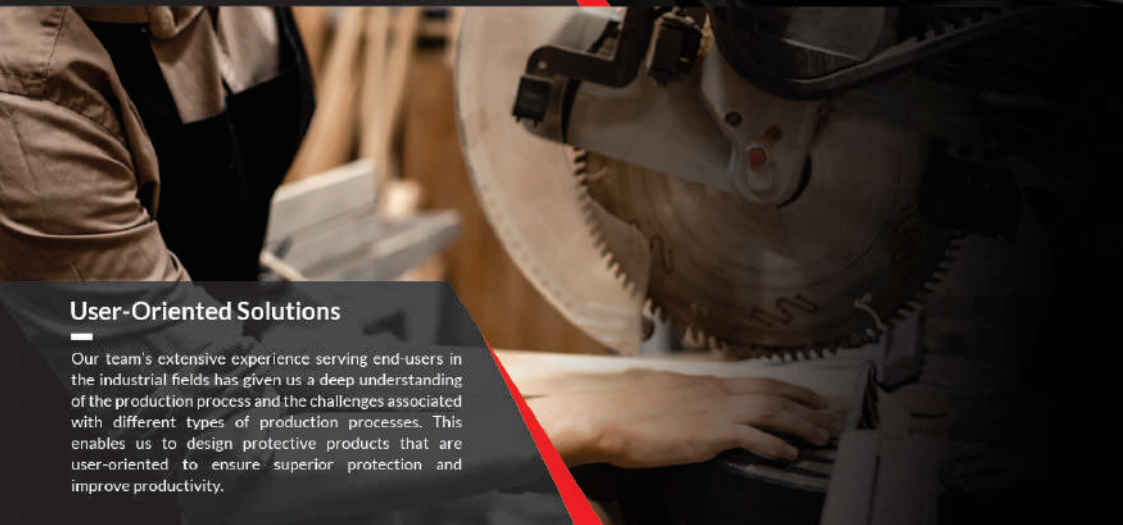


Comfort in Quality

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

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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



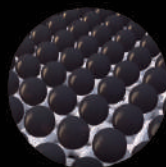
TPU

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 13



TX 537
Pg 14



Touch screen
function

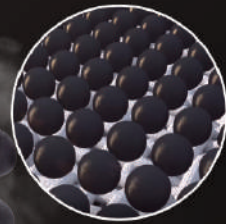
NexPolymer™

Coating Passed the Food Contact Test and Biodegradable



360° Breathable

Lightweight, Soft, Best Fitting and Comfort



>8,000

Cycle of Abrasion Resistance

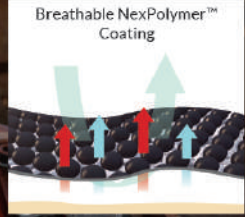
More Durable and Long Lasting



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	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL
Length	240mm	Coating	NexPolymer™
Thickness	-	Material	15-Gauge nylon + Spandex glove lining
Colour	Black		

APPLICATIONS



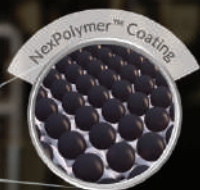
STANDARDS



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	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL
Length	240mm	Coating	NexPolymer™
Thickness	-	Material	15-Gauge nylon + Spandex glove lining
Colour	Blue		

APPLICATIONS



Machinery



Mechanical



Engineering



Electronic/
Semi Conductor



Automotive



Aerospace



Transportation



Packaging



Warehousing &
Distribution



Food
Processing



EN 388:2016



4131X



GT315

General Purpose

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



BENEFITS

- Excellent grip performance in light wet/oil condition.
- High abrasion resistance enhances durability and wear time.
- Double coating nitrile resistant against puncture.
- 360° full coated against liquid penetration.
- Outstanding dexterity for fine work.
- Superior fitting and comfort for long working hours.

FEATURES

- Micro granular surface finishing
- Nitrile rubber
- Double layer nitrile full coated



PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL
Length	240mm	Coating	Nitrile micro granular
Thickness	-	Material	15-Gauge polyester
Colour	Black		

APPLICATIONS



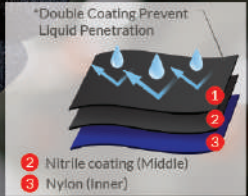
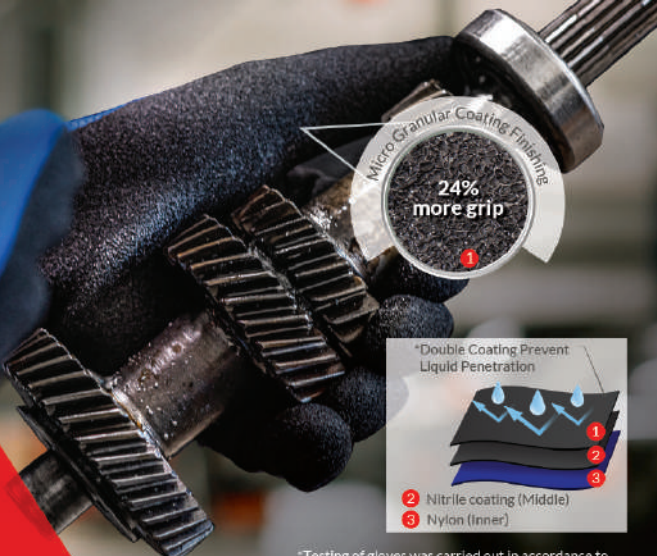
EN 388:2016



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 Length Thickness Colour	<ul style="list-style-type: none"> • 12 Pairs per inner box • 12 Inner boxes per carton • 144 Pairs per carton 	Sizes Coating Material	<ul style="list-style-type: none"> • 6/XS • 7/S • 8/M • 9/L • 10/XL
	220mm - 280mm		Nitrile micro granular
	0.40mm - 0.50mm		13-Gauge nylon liner
	Dark Blue		

APPLICATIONS



STANDARDS



GT570

General Purpose

Excellent grip performance in dry condition with flat nitrile

BENEFITS

- Excellent grip performance in dry condition.
- High abrasion resistance enhances durability and wear time.
- Good dexterity for fine work.
- Superior fitting for long working hours.
- Breathable back to keep hand dry.

FEATURES

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



PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L 	• 10/XL
Length	240mm	Coating	Nitrile	
Thickness	-	Material	13-Gauge polyester	
Colour	White/ Black			

APPLICATIONS



STANDARDS



GT529

General Purpose

Good grip performance in light wet/oil condition



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	<ul style="list-style-type: none">• 10 Pairs per polybag• 12 Polybags per carton• 120 Pairs per carton	Sizes	<ul style="list-style-type: none">• 7/S• 8/M• 9/L	<ul style="list-style-type: none">• 10/XL
Length	240mm	Coating	Nitrile	
Thickness	-	Material	13-Gauge polyester	
Colour	Black			

APPLICATIONS



Machinery



Mechanical



Mining



Engineering



Electronics



Automotive



Aerospace



Construction



Transportation



Packaging



Warehousing & Distribution

STANDARDS



EN 388:2016



4131X

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. 13



TX 537
Pg. 14

TX536

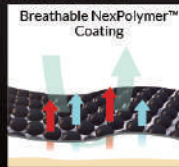
Cut Resistance

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.



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	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L 	• 10/XL	
Length	240mm	Coating	NexPolymer™		
Thickness	-	Material	18-Gauge TungFlex™		
Colour	Green				

APPLICATIONS



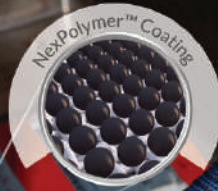
STANDARDS



TX537

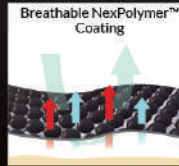
Cut Resistance

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	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL
Length	240mm	Coating	NexPolymer™
Thickness	-	Material	18-Gauge TungFlex™
Colour	Blue		

APPLICATIONS



STANDARDS



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

Length

220mm - 280mm

Thickness

0.92mm

Colour

Grey

Sizes

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

Coating

Nitrile

Material

15-Gauge HPPE stainless steel + Spandex + Nylon

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 (mm)
180+/- 5



PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 10 Pairs per polybag • 6 Polybags per carton • 60 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL
Length	350mm	Coating	Nitrile
Thickness	-	Material	13-Gauge HPPE + Stainless steel
Colour	Light Grey		

APPLICATIONS



Machinery



Automotive



Agriculture



Horticulture



Transportation



Aerospace



Construction



Glass Industry



Mining



Logistics

STANDARDS



EN 388:2016



4X44F

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

EN 388:2016



4X42C

FEATURES

Reinforced crotch for extra cut protection



STANDARDS

EN 388:2016



4X42D

PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 10 Pairs per polybag • 12 Polybags per carton • 120 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L • 10/XL • 11/XXL
Length	240mm	Coating	PU
Thickness	-	Material	13-Gauge HPPE + Glass fiber
Colour	Light Grey (TU540) Grey (TU550)		

APPLICATIONS



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



Bacteriostatic/ Antibacterial

Maintain cleanliness and hygiene because graphene possesses natural antibacterial properties that effectively inhibit the growth of bacteria.



High Abrasion Resistant

High abrasion performance with >8000 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.

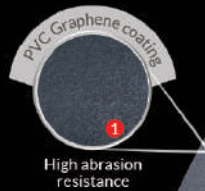
Graphene PVC series glove



CP251
Pg 19

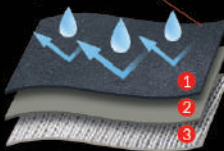


CP252
Pg 19



High abrasion resistance

*Double Coating Prevent Liquid Penetration



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

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

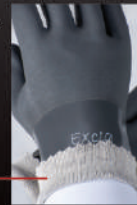
Extended length for extra protection



High abrasion resistance

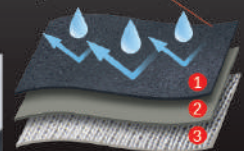
FEATURES

- 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	<ul style="list-style-type: none"> • 10 Pairs per polybag • 6 Polybags per carton • 60 Pairs per carton
Length	260mm±5mm (CP251) 300mm±5mm (CP252)
Thickness	1.51mm (palm)±0.2mm
Colour	Grey

Sizes	<ul style="list-style-type: none"> • 8/M • 9/L • 10/XL
Coating	PVC with graphene
Material	13-Gauge cotton liner

APPLICATIONS



Chemical



Automotive



Machinery
Manufacturing



Janitorial &
Cleaning



Oil & Gas

STANDARDS





Excellent Chemical Performance

CT135

Chemical Resistance

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

CT037

Chemical Resistance

Excellent performance against chemical permeation & durability in handling chemical with confidence & 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) • 12 Pairs per polybag • 12 Polybags per carton • 144 Pairs per carton	(CT037) • 10 Pairs per polybag • 6 Polybags per carton • 60 Pairs per carton	Sizes	(CT135) • 7/S • 8/M • 9/L • 10/XL	(CT037) • 8/M • 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)		Material	Flock lined	
Colour	Green				

APPLICATIONS



CT007

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
- Non-powdered
- Hand-specific form



Beaded Cuff

PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 12 Pairs per polybag • 12 Polybags per carton • 144 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 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



2777

EN 388:2016



0001X

EN ISO 374-1:2016/TYPE B



AJRL

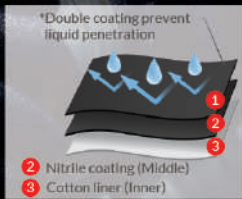
EN ISO 374-5:2016



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



Cotton Lining

PRODUCT SPECIFICATION

Packaging

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

Length

300mm±5mm

Thickness

1.15mm (cuff)±0.2mm

Colour

Black

Sizes

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

Coating

Nitrile micro granular

Material

15-Gauge cotton liner



APPLICATIONS



Chemical



Automotive



Machinery



Janitorial & Cleaning



Oil & Gas

STANDARDS



CAT.III

EN ISO 374-1:2016/TYPE A

2777



EN ISO 374-5:2016

2016/TYPE A

4121X



EN ISO 374-1:2016

2016

A/JK/LMO



EN ISO 374-5:2016

2016

4121X

CE108

Chemical resistance

Excellent performance against solvent protection & durability in handling chemical with confident



Excellent Chemical Performance



BENEFITS

- Chemically toughened for broad range of solvents, oils, animal fats and other chemicals.
- Manufactured with added polychloroprene rubber compound for improved protection against abrasion and puncture resistant.
- Provides superior wet and dry grip.
- Comfortable and flexible with tactile sensitivity.
- Safe for food contact.

FEATURES

- Unsupported, flock-lined
- Heavy duty use
- Embossed grip
- Enhanced diamond pattern
- Food safe



Flock Lining



PRODUCT SPECIFICATION

Packaging	<ul style="list-style-type: none"> • 12 Pairs per polybag • 12 Polybags per carton • 144 Pairs per carton 	Sizes	<ul style="list-style-type: none"> • 8/M • 9/L • 10/XL
Length	330mm +/- 30mm	Coating	Neoprene
Thickness	0.68mm +/- 0.10mm (Palm area)	Material	Flock lined
Colour	Black		

APPLICATIONS



STANDARDS



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 cellulose*	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

* Basic chemicals used for cleaning.

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

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
Monethanolamine	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
Tricreslyl phosphosphate (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	<ul style="list-style-type: none"> • 100 pcs per box • 10 boxes per carton • 1000 pcs per carton 	Sizes	<ul style="list-style-type: none"> • 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



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	<ul style="list-style-type: none"> • 100 pcs per box • 10 boxes per carton • 1000 pcs per carton 	Sizes	<ul style="list-style-type: none"> • 7/S • 8/M • 9/L 	<ul style="list-style-type: none"> • 10/XL
Length	240mm +/- 5mm	Coating	Nitrile	
Thickness	0.08mm +/- 0.02mm 3.1mil +/- 1mil (Palm) 0.11mm +/- 0.02mm 4.3mil +/- 1mil (Finger)	Material	-	
Colour	Blue	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	<ul style="list-style-type: none"> • 100 pcs per box • 10 boxes per carton • 1000 pcs per carton 	Sizes	<ul style="list-style-type: none"> • 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



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 coating that significantly increases the surface friction of contact points in light oil & wet conditions compared to other nitrile coatings. Flat nitrile provides a better grip on dry condition, reducing injury risk and enhancing work performance.

RECOMMENDED PRODUCT

Micro-granular coating



Flat NBR



*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



TU550

Cut level E protection



TX537

Cut level F protection



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



CT135

Type A certified
(6 chemicals)



CE108



CT037



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)

*Double Coating Prevent Liquid Penetration

- 1 Micro granular finishing
- 2 Nitrile coating (Middle)
- 3 Nylon (Inner)

GT505

Medium to heavy oil
(Double coating)

*Double Coating Prevent Liquid Penetration

- 1 Micro granular finishing
- 2 Nitrile coating (Middle)
- 3 Cotton Liner (Inner)

CT205

Heavy oil
(Double coating)

*Double Coating Prevent Liquid Penetration

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

CP251 CP252



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



Thickness
0.40mm

CT135



Thickness
0.28mm

CT007



Finger Thickness
0.07mm

9300

HACCP
HALAL (JAKIM)



Finger Thickness
0.12mm

9500



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



GT570

Ergonomic design



9300

Finger Thickness
0.07mm



9500

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



Excellent Chemical
Performance



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

Category	Product Model	Coating	Type of Coating	Material	Grip
					Dry
General	GX505	NexPolymer™	Palm	Nylon + Spandex	●
General	GX518	NexPolymer™	Palm	Nylon + Spandex	●
General	GT315	Nitrile micro granular	All (Whole hand only)	Polyester	●
General	GT505	Nitrile micro granular	Palm	Nylon	●
General	GT570	Flat NBR	Palm	Polyester	●●
General	GT529	Foam NBR	Palm	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	CT135	Flat NBR	All	Cotton Flock	●
Chemical	CT125	Flat NBR	All	Cotton Flock	●
Chemical	CT037	Flat NBR	All	Cotton Flock	●
Chemical	CT007	Flat NBR	All	Cotton Flock	●
Chemical	CT205	Nitrile micro granular	All	Cotton	●
Chemical	CE108	Neoprene	All	Cotton Flock	●
Disposable	9300	Flat NBR	All		●
Disposable	9410	Flat NBR	All		●
Disposable	9500	Flat NBR	All		●
Disposable	9600	Flat NBR	All		●

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



Body Protection

	Page
T5-200	41 - 42
T3-300	43
T3-400	44



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

PRODUCT SPECIFICATION

Packaging	Individual polybag (40pcs per carton)	Size	S-XXXX
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



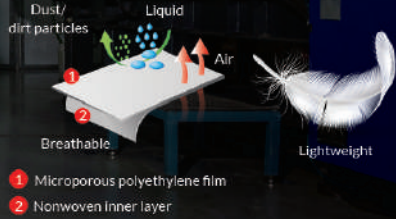
T5-200

(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



Automotive



Aerospace



Construction



Food Processing



General manufacturing



Life sciences/ pharmaceutical



Healthcare



Marine



Oil & Gas



Chemical



Pest control



Veterinary



Janitorial & Cleaning



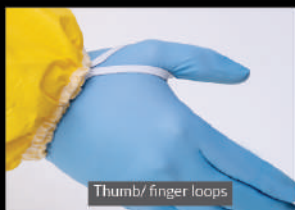
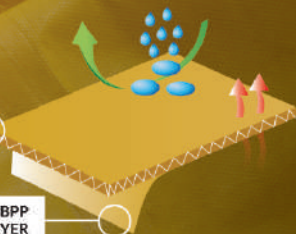
T3-300

Protective Clothing

High durability and strong chemical protection

POLYETHYLENE (PE) BARRIER LAYER

MELTBLOWN & SBPP NON-WOVEN INNER LAYER



Thumb/ finger loops



Two way zipper

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.
- 2 way zipper with zip flap 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 overlapped 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.

FEATURES

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



PRODUCT SPECIFICATION



Packaging	Individual polybag (40pcs per carton)	Size	S-XXXL
Weight	70gsm	Colour	Yellow
Seam	Stitched & Taped	Product Code & Style	T3-300-TY-EA0 / Standard plus T3-300-TY-EG0 / Standard plus, double cuffs T3-300-TY-EF0 / Standard plus, integrated socks
Fabric	Unique nonwoven composite fabrics (Polyethylene (PE) + meltblown polypropylene film)		

APPLICATIONS



STANDARDS



T3-400

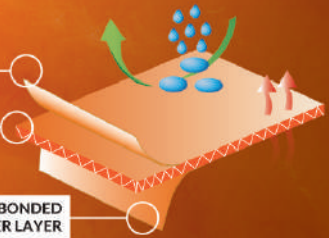
Protective Clothing

Highly visible, durability and strong chemical protection

COMPOSITE LIQUID RESISTANT BARRIER FILM

CORE OF CHEMICAL BARRIER MATERIAL

HEAVY WEIGHT STRONG SPUNBONDED POLYPROPYLENE INNER LAYER



Reusable double sided tape



Elastication wrist

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.
- 2 way zipper with zip flap 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 overlapped 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.
- 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 (40pcs 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

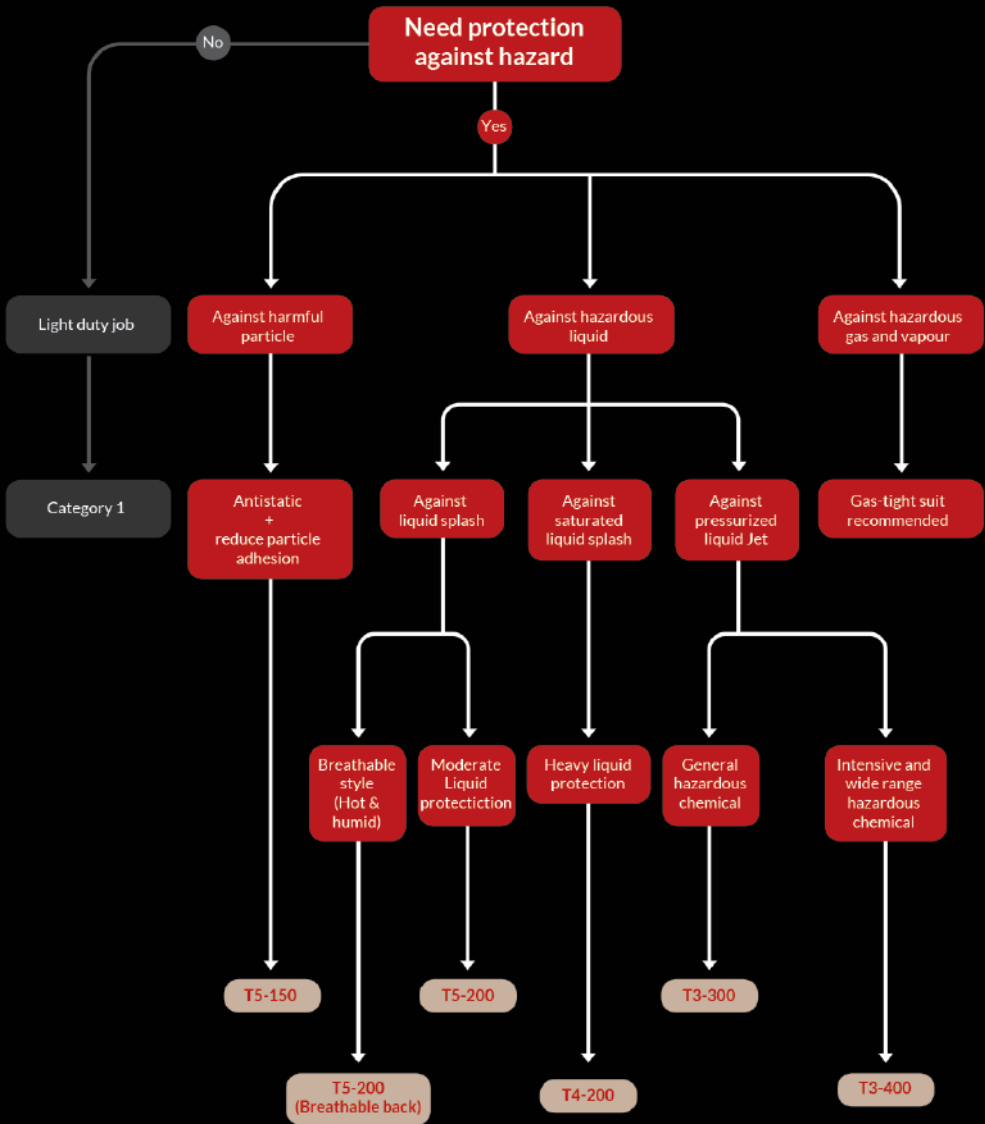


STANDARDS



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

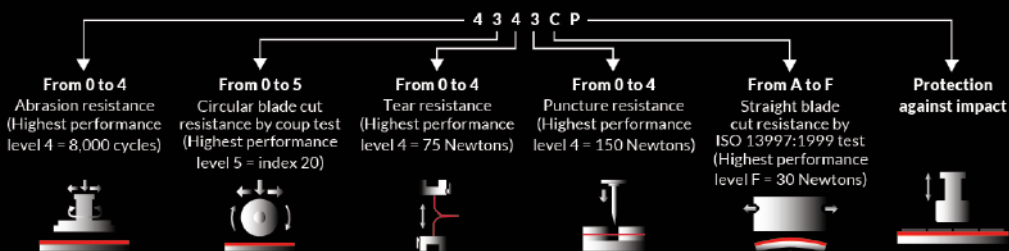
*Printed on the packaging or on the user instruction of EXCIA gloves. For further details, contact your distributor or visit the website.

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

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

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

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 hand.

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 1000
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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Version 1.3