PRODUCT DATASHEET







Environmental Credentials

- **RPET Yarn:** Uses 2 x 500ml recycled drinking bottles per pair.
- Recycled Nitrile Coating: 11% Recycled nitrile palm coating reduces oil and CO, consumption.
- Durability Is Sustainability: Abrasion rating of 20,000+ cycles, ensuring each pair lasts longer.
- Environmentally Friendly: 43g of CO₂ and 2L of water per pair saved versus traditional polyester nitrile coated gloves.
- GRS Certified: Tracked and verified recycled materials in a final product.
- Oeko-Tex STeP Certified: Responsible production for people and planet.

Glove Features

- ▶ 18-Gauge: Superior comfort and dexterity, perfect for intricate handling tasks.
- Certified Cut Level D: Moderate to high cut protection under AS/NZS 2161.3:2020.
- Unmatched Comfort: Pre-curved design ensures a 'hand at rest' feel for fatigue reduction.
- Thumb & Forefinger Saddle: Enhances durability and grip in high-wear areas, extending glove life.
- **Breathable:** Wearer comfort in hot conditions.
- ▶ UPF50+: Maximum sun protection.
- **Recycled Packaging:** Plastic free, fully recyclable packaging to minimise environmental impact.

Standards & Certification



Force360 recognise that without product certification by a Notified Body all product performance testing, and adherence to standards claims cannot be independently verified. If they are not as claimed, serious safety implications for the wearer, and legal implications for the supplier and even the employer may arise. Force360 source their entire range of Synthetic hand protection from a single manufacturing partner to ensure consistency and reliability of product, but most importantly Force360 have taken the further step of engaging a globally recognised Notified Body to audit and certify both the manufacturing process and the products. All of Force360's hand protection is certified to the latest AS/NZS hand protection standards.

Specifications

Part No. Liner Coating

GENV035 RPET, HPPE & Steel Recycled Nitrile

Packaging



Sizing & Fit Available Sizes

	GENV035.XS	X Small
	GENV035.S	Small
	GENV035.M	Medium
•	GENV035.L	Large
	GENV035.XL	X Large
	GENV035.2XL	2X Large
	GENV035.3XL	3X Large

Dexterity Level

Maximum Dexterity Level 5 Certified under AS/NZS 2161.2:2020





Hand Protection Standards

AS/NZS 2161.2:2020 EN ISO 21420:2020

This standard adopts EN ISO 21420:2020 in its entirety, but makes minor modifications for the Australian market.

SUN PROTECTION

UPF50+ Sun Protection

The new glove standard AS/NZS 2161.2:2020 has been introduced as a replacement for AS/NZS 2161.2:2005 and ensures the materials manufacturers of PPE use in their products do not adversely affect the health or safety of the user. It also responds to the growing trend in standardisation to address the topic of "innocuousness" and takes into consideration the requirements of the EU PPE Regulation in terms of the Essential Health and Safety aspects of Annex II.

AS/NZS 2161.2:2020 specifies the general requirements and relevant test procedures for glove design and construction, innocuousness, comfort and efficiency, as well as the marking and information supplied by the manufacturer applicable to all protective gloves.

Pass under AS/NZS 4399 Sun Protective Clothing. Tested by

Australian Radiation Protection And Nuclear Safety Agency (ARPANSA).

REACH COMPLIANCE

Required Safe pH Level Certified under AS/NZS 2161.2

AZO Dye and Irritant Chemical Free

Certified under AS/NZS 2161.2



AS/NZS 2161.3:2020 EN 388:2016

This Australian standard adopted EN 388:2016,A1:2018 in its entirety and came into effect from November 2020. The standard specifies requirements, test methods, marking, and information to be supplied for protective gloves against the mechanical risks of abrasion, blade cut, tear, puncture and, if applicable, impact.

ABRASION TEST

The abrasion resistance test is carried out using an instrument

known as a Martindale tester. The material to be tested is placed on a bed, and a rubbing head of fixed size and pressure, covered with a standard abrasive material, is moved in a circular motion over the test specimen.

Abrasion Resistance (Cycles)	Rating
8000	4
2000	3
500	2
100	1

Until the EN 388:2016 standard was released, the 'Coupe Blade Cut Test' was the only standard test method for measuring cut protection. A rotating blade moves horizontally across a fabric sample with a fixed force of 5 Newtons. The test is complete when the blade breaks through the fabric, and the result is indicated as an index value.

Cut Index	Rating
20	5
10	4
5	3
2.5	2
1.2	1

XXXXX

TEAR TEST

XX3XXX

GLOVE CARE

Cold Water Rinse

Dryer <60°C

Machine Wash <40°C

The tear test is carried out by clamping four sample material swatches (taken from the glove's palm) into a standard tensile strength testing machine. The machine moves apart at a speed of 100mm per minute, and the force required to tear the fabric is measured in Newtons.

Tear Resistance (Newtons)	Rating
70	4
50	3
25	2
10	1

PUNCTURE TEST

The puncture test is carried out by a compression test machine that pushes a 50mm rounded stylus through a sample cut from the glove's palm at a speed of 100mm per minute. The maximum resistance force is recorded and used to give the performance level rating from 1 to 4.

Puncture Resistance (Newtons)	Rating
150	4
100	3
60	2
20	1

EN ISO 13997 CUT TEST

Gloves engineered for cut resistance commonly have a blunting effect on blades; for this reason, additional cut tests must now be completed and verified. Any fabric that blunts the 'Coupe Blade Cut Test' blade will be marked with an X, and testing using the new EN ISO 13997 test should be carried out.

EN ISO Cut Resistance	Rating
30N (3059g)	F
22N (2243g)	E
15N (1530g)	D
10N (1020g)	С
5N (505g)	В
2N (204g)	А

IMPACT TEST

XXXXDX

XXXXXXX

The impact test is a new addition to EN 388:2016 and is a pass/ fail optional test. It is the resistance to a 2.5kg weight impacting 5J (Joules) energy onto the glove. The material may not fracture or split and is measured following EN 13594:2015 as either Pass (P) or Fail (F). If this test is not carried out, it is recorded with an 'X'.

EN13594:2015	Rating
Fracture / Split	Fail
No Change	Pass
Not Tested	Х

CUT (COUPE TEST)

To request a sample or further technical advice please contact sales@force360.com.au © 2025 Private Brands Pty Ltd | March 2025





4 X X X X X

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PRODUCT DATASHEET



Hand Protection Standards

AS/NZS 2161.4:1999 EN 407:2020

The standard specifies requirements, test methods, marking and information for protective gloves and other protective hand equipment against thermal risks for professional use, consumer and/or domestic use. This test method is used for all gloves and other protective equipment which protect the hands quantities of molten metal. It is only applicable in conjunction with EN ISO 21420:2020.

LIMITED FLAME SPREAD

X X X X X X

A new test setup system for the testing machine has been defined to

After-Burn	Time	(sec)	After-Glow Time	(sec)	Rating
------------	------	-------	-----------------	-------	--------

Under 2 Seconds	Under 5 Seconds	4
Under 3 Seconds	Under 25 Seconds	3
Under 10 Seconds	Under 120 Seconds	2
Under 20 Seconds	Infinity	1

RADIANT HEAT RESISTANCE X X X X X X

be tested. If a glove consists of multiple layers, a sample consisting delay the transfer of heat from a radiant heat source is measured and

Seconds	Rating
Under 150 Seconds	4
Under 90 Seconds	3
Under 30 Seconds	2
Under 5 Seconds	1

CONTACT HEAT RESISTANCE XXXXXX

The entire glove (palm, fingers, etc.) and all its component materials temperature reached, a score is given (1-4).

Temperature after 15 Seconds (°C)	Rating
500°C	4
350°C	3
250°C	2
100°C	1

SMALL SPLASHES OF MOLTEN METAL

XXXXXXX

Number of Drops	Rating	
Over 35	4	
Over 25	3	
Over 15	2	
Over 5	1	

CONVECTIVE HEAT RESISTANCE

XXXXXX

must test three 140×140mm specimens taken from the palm of a glove. If a glove consists of multiple layers, a sample consisting of all

Seconds	Rating
Under 18 Seconds	4
Under 10 Seconds	3
Under 7 Seconds	2
Under 4 Seconds	1

LARGE SPLASHES OF XXXXXX **MOLTEN METAL**

be tested. The lowest result gives the performance level.

Grams of Molten Metal	Rating
200g	4
120g	3
60g	2
30g	1

COLD RISKS EN 511:2006

The standard specifies the requirements and test methods for gloves that protect against convective and conductive cold down to -50°C, as well as water tests, the higher the number, the better the performance, while water penetration is only marked with either 0 or 1, where 0 signifies the glove failed the test

CONVECTIVE COLD	Ххх	CONTACT
This test method gauges the thermal insulation (IT against convective cold. During this test, the glove an electrically heated artificial hand that measures power required to maintain 30°C and 35°C in a th compartment.	The contact colo metal plates at v drop across the resistance. This when touching o	
Thermal Insulation (TR) in m2°C C/W	Rating	Thermal Insul
	4	>0.150
0.22 < TR < 0.30	3	0.100 < R < 0
0.15 < TR < 0.22	2	0.050 < R < 0

COLD

varied temperatures. The measured temperature s test replicates how well a glove protects the wearer or handling cold surfaces and objects.

Thermal Insulation (R) in m2°C C/W	Rating
>0.150	4
0.100 < R < 0.150	3
0.050 < R < 0.100	2
0.025 < R < 0.050	1

XXX

WATER PENETRATION

XXX

fail receive a Level 0 rating. Level 1 gloves will keep hands dry as

Rating
Pass
Fail



PRODUCT DATASHEET



FORCE

Hand Protection Standards

EN ISO 374:2016



The standard specifies which gloves are classed as: Type A, Type B or Type C depending on their performance level and number of chemicals they can protect against.



Penetration resistance (EN374-2) Breakthrough time ≥ 30min for at least 6 chemicals in the new list (EN16523-1)



Penetration resistance (EN374-2) Breakthrough time \geq 30min for at least 6 chemicals in the new list (EN16523-1)

EN ISO 374-1 / Type C



Penetration resistance (EN374-2) Breakthrough time \geq 10min for at least 1 chemicals in the new list (EN16523-1)

Code Letter	Chemical	CAS Number	Class
А	Methanol	67-56-1	Primary Alcohol
В	Acetone	67-64-1	Ketone
С	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	Sulphur containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
Н	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound
1	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-85-5	Saturated hydrocarbon
К	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid, oxidizing
Μ	Nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidizing
Ν	Acetic acid 99%	64-19-7	Organic acid
0	Ammonia 25%	1336-21-6	Organic base
Р	Hydrogen peroxide 30%	7722-84-1	Peroxide
S	Hydrofluoric acid 40%	7665-39-3	Inorganic mineral acid
Т	Formaldehyde 37%	50-00-0	Aldehyde

Definition of Terms

PENETRATION

When a chemical moves through a pinhole, seam or other imperfection in a glove material at a non-molecular level.

PERMEATION

The absorption of a chemical through the glove material at a molecular level. Breakthrough time is how long it takes for the chemical to move through the material and come into contact with the skin.

DEGRADATION

A negative change in the glove material after contact with a chemical. Signs of degradation include swelling, disintegration, flaking, brittleness, colour change, dimensional change, hardening or softening.

Under EN374-5 gloves claiming bacteria and fungi protection must pass the penetration resistance test in accordance with standard EN 374-2: 2014. Gloves claiming bacteria, fungi and virus protection must also pass ISO 16604: 2004 (method B) test.

Gloves that meet the above requirement use the pictograms below:





VIRUS For gloves offering protection against bacteria, fungi

For gloves offering protection against bacter and fungi.

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