# PRODUCT DATASHEET

DESIGNED



# The Certified Cowhide Rigger

LEATHER



### **Features**

- Premium Cowhides: Crafted from select cowhides for a soft, supple finish.
- Wing Thumb & Stitch-Free Palm: For increased durability and enhanced dexterity.
- **Double-Stitched:** In high-wear areas for extended longevity.
- **Perfect Fit:** Designed with a gathered elastic strip at the back of the wrist for optimal fitment.
- ▶ Chemical-Free: Ensures wearer peace of mind through a production process free from harmful chemicals.
- Colour Coded Cuff: Facilitates easy size identification for enhanced convenience.
- **Fast Fit Cuff:** For hassle-free fitment.
- **UPF50+:** Maximum sun protection.
- ▶ Vend-Ready: Available in packaging tailored for vending machines.
- Retail Ready: Individually barcoded, perfect for retail stores.

### **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.



## Vend Ready Packaging Part No. GWORX600V

Packaging 12 pairs per inner pack / 72 pairs per carton

### **Specifications**

Part No. Liner Coating

GWORX600 N/A Cowhide Leather

### Packaging



### Sizing & Fit

## **Available Sizes**

- GWORX600.S Small
  GWORX600.M Medium
  GWORX600.L Large
  GWORX600.XL X Large
- GWORX600.2XL 2X Large

### **Dexterity Level**

Maximum Dexterity Level 3 Certified under AS/NZS 2161.2:2020



# Hand Protection Standards

GW/0/RX**600** 

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**

**PUNCTURE TEST** 

rating from 1 to 4.

150

100

60 20

Puncture Resistance (Newtons)

### 3 X X X X X

XXX4XX

Rating

Δ

3

2

1

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

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

**CUT (COUPE TEST)** 

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
12	1

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
<b>30N</b> (3059g)	F
<b>22N</b> (2243g)	E
<b>15N</b> (1530g)	D
<b>10N</b> (1020g)	С
<b>5N</b> (505g)	В
<b>2N</b> (204g)	А

### **IMPACT TEST**

### 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

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# **GLOVE CARE**

Machine Wash <40°C Cold Water Rinse Dryer <60°C

X 1 X X X X

XXXXXXXX

**TEAR TEST** 

XX4XXX

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

To request a sample or further technical advice please contact sales@force360.com.au © 2024 Private Brands Pty Ltd | January 2024

# EN ISO 13997 CUT TEST

# GW/0RX**600**

# 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 quantities of molten metal. It is only applicable in conjunction with EN ISO 21420:2020.

### **LIMITED FLAME SPREAD**

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

**X** X X X X X

### 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 XXXXXXX

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** 

The entire glove (palm, fingers, etc.) and all its component materials incremental temperature range of 100 to 500°C. Depending on the 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**

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

### **CONVECTIVE HEAT** RESISTANCE

XXXXXX

XXXXXXX

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

<b>CONVECTIVE COLD</b>	Ххх	CONTACT COLD	ХXХ
This test method gauges the thermal insulation (ITR) of a glove against convective cold. During this test, the glove is placed on an electrically heated artificial hand that measures the amount of power required to maintain 30°C and 35°C in a thermally controlled compartment.		The contact cold test gauges a glove's thermal resistance (R) using metal plates at varied temperatures. The measured temperature drop across the test specimen is then used to calculate its thermal resistance. This test replicates how well a glove protects the wearer when touching or handling cold surfaces and objects.	
Thermal Insulation (TR) in m2°C C/W	Rating	Thermal Insulation (R) in m2°C C/W	Rating
	4	>0.150	4
0.22 < TR < 0.30	3	0.100 < R < 0.150	3
0.15 < TB < 0.22	2	0.050 < B < 0.100	2

### COLD

### WATER PENETRATION

XXX

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

Water Penetration	Rating
> 30 mins	Pass
< 30 mins	Fail

## **Hand Protection Standards**

GW/ORX**600** 

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  $\geq$  30min for at least 6 chemicals in the new list (EN16523-1)

### EN ISO 374-1 / Type B



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)

	Chemical	CAS Number	Class
A	Methanol	67-56-1	Primary Alcohol
	Acetone	67-64-1	Ketone
	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
H	Tetrahydrofuran	109-99-9	Heterocyclic and ether compound
	Ethyl acetate	141-78-6	Ester
J	n-Heptane	142-85-5	Saturated hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid, oxidizing
M	Nitric acid 65%	7697-37-2	Inorganic mineral acid, oxidizing
N	Acetic acid 99%	64-19-7	Organic acid
	Ammonia 25%	1336-21-6	Organic base
P	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 and viruses.

For gloves offering protection against bacteria and fungi.

