

GLOVE JUBA - 921 FRONTIER 75

Unsupported neoprene glove.



STANDARDS



3110X



AKLMNOPST



HIGHLIGHTS



CHARACTERISTICS

- Great chemical resistance and protection against acids, caustics, alcohols and different solvents.
- Cotton interior flocking to absorb sweat and provide the user with greater comfort.
- With bactericidal and fungicidal treatment
- Non-slip pattern with honeycomb finish for optimal grip in wet and dry environments.
- Individual bag for point of sale.
- This glove protects against the following chemicals: Methanol (level 3, > 60 minutes), n-Heptane (level 1, > 10 minutes), Sodium Hydroxide 40% (level 6, > 480 minutes), Sulfuric Acid 96% (level 4, > 120 minutes), nitric acid 65% (level 6, > 480 minutes), acetic acid (level 5, > 240 minutes), ammonium hydroxide 25% (level 3, > 60 minutes), hydrogen peroxide 65% (level 6, > 480 minutes), Hydrofluoric acid 40% (level 6, > 480 minutes) and Formaldehyde 37% (level 6, > 480 minutes).
- For bacteria and fungi this glove is totally watertight according to EN 374-2: 2014.
- Model 92138 in length 38 cm. for added protection.

WORKING GLOVES SUITABLE FOR:

- Chemical industry.
- Refineries and petrochemicals.
- Aviation and automotive industry.
- Maintenance and industrial cleaning work.
- Agriculture (phytosanitary).
- Construction, masonry and plumbing.

MORE INFORMATION

Materials	Color	Thick	Long	Sizes	Packaging
Neopreno	Black	0.70 mm	XS - 30 cm S - 30 cm M - 30 cm L - 30 cm XL - 30 cm XXL - 30 cm	6/XS 7/S 8/M 9/L 10/XL 11/XXL	12 Pairs/package 72 Pairs/box

STANDARDS

EN388:2016



EN388:2016 Protective gloves against mechanical risks

According to this standard, characteristics such as abrasion resistance, cut resistance, tearing strength, puncture resistance and impact protection are tested. In conjunction with the pictogram, four numbers and one, or two letters, will be displayed. These signs indicate the performance of the glove.

ABRASION RESISTANCE

The material is subjected to abrasion by a sandpaper under a determined pressure. The protection level is indicated on a scale of 1 to 4 depending on the number of turns required until a hole appears in the material. The higher the number is, the better the resistance to abrasion.

CUT RESISTANCE, COUP TEST

The cut protection is tested. A knife is passed over the glove material until it cuts through. The protection level is given by a number between 1 and 5, where 5 indicates the highest cut protection. If the material dulls the knife during this test, the cut test ISO 13997(TDM test) shall be performed instead, see point 5.

TEARING STRENGTH

The force required to tear the glove material apart is measured. The protection level is indicated by a number between 1 and 4, where 4 indicates the strongest material.

PUNCTURE RESISTANCE

Based on the amount of force required to puncture the material with a tip. The protection function is indicated by a number between 1 and 4, where 4 indicates the strongest material.

CUT RESISTANCE, TDM TEST ISO 13997

If the knife gets dull during the coup test, see point 2, this test shall be performed instead. The result is given by a letter, A to F, where F indicates the highest level of protection. If any of these letters is given, this method determines the protection level instead of the coup test.

ISO 13997:1999 – Determination of resistance to cutting by sharp objects

An alternative cut test recommended for cut protection gloves. Shall be used in EN388:2016 for cut protection gloves where the cut material dulls the cutting knife during testing. A knife cuts with constant speed but increasing force until breakthrough of the cut protection material. Level of protection is given in Newton, the force needed for cut through at 20mm cut length.

IMPACT PROTECTION

If the glove has an impact protection, this information is given by the letter P as the 6th and last sign. If no P sign, no impact protection is claimed.

ENISO374-1:2016



EN ISO 374:2016 Protective gloves against dangerous chemicals and micro-organisms

Chemicals can cause seriously harm for both the personal health and the environment. Two chemicals, each with known properties, can cause unexpected effects when they are mixed. This standard gives directives of how to test degradation and permeation for 18 chemicals but doesn't reflect the actual duration of protection in the workplace and the differences between mixtures and pure chemicals. This standard specifies the demands of the requirements for a glove to protect against dangerous chemicals and micro-organisms. The shortest allowable length that is liquid tight shall correspond to the minimum length of the gloves as specified in EN 420:2003 + A1:2009

PENETRATION

Chemicals can penetrate through holes and other defects in the glove material. To secure a glove to be approved as a chemical protection glove the glove shall not leak water or air when tested according to penetration, EN 374-2:2014.

DEGRADATION

The glove material might be negatively affected by chemical contact. Degradation shall be determined according to EN 374-4:2013 for each chemical. The degradation result, in percentage (%), shall be reported in the user instruction.

PERMEATION

The chemicals break through the glove material at a molecular level. The breakthrough time is here evaluated and the glove must withstand a breakthrough time of at least:

Type A – 30 minutes (level 2) against minimum 6 test chemicals

Type B – 30 minutes (level 2) against minimum 3 test chemicals

Code letters	Chemical	Cas no.	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated hydrocarbon
E	Carbon disulphide	75-15-0	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
I	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, oxidizings
M	Nitric acid ⁹ 65%	7697-37-2	Inorganic mineral acid, oxidizings
N	Acetic acid 99%	64-19-7	Organic acid

Type C – 10 minutes (level 1) against minimum 1 test chemical

The third row in the pictogram for Type A and B indicates which chemicals, in the table below, the glove protects against. Type C doesn't have a third row and withstand 1 chemical only for a short while.

O	Amoniaco 25%	1332-21-6	Base orgánica
P	Peróxido de hidrógeno 30%	7722-84-1	Peróxido
S	Ácido fluorhídrico 40%	7664-39-3	Ácido inorgánico mineral
T	Formaldehído 37%	50-00-0	Aldehído

The test chemicals are listed in the table above and all 18 chemicals shall be tested for permeation according to EN 16523-1:2015.

	General req. in en 420	Penetration (shall not leak)	Min. level 2 of 6 chemicals	Min. level 2 of 3 chemicals	Min. level 1 of 1 chemical
Type a	X	X	X		
Type b	X	X		X	
Type c	X	X			X

MICRO-ORGANISMS

All gloves must be tested against micro-organisms. The gloves are tested to protect against bacteria and fungi, but also viruses if requested, according to EN 374-5:2016.