

## INSTRUCTIONS - GLOVEBOX GLOVES

### MADE OF BUTYL HIGH PROPERTIES/EPDM CHEMISTRY (BHP/Eb Chim) 6/10mm

#### ➤ Scope/Characteristics of the material and expiry

- This glove can be used in the domain of life sciences (medical/pharmaceutical industries), nuclear industries, industries in the ATEX domain
- This glove is manufactured using high-performance isobutylene polyisoprene (BHP), covered by black EPDM (Ethylene-Propylene-Diene-Monomer (Eb))
- This glove protects against certain chemical and mechanical risks, against radioactive contamination and provides protection against micro-organisms.
- It can be used in an atmosphere containing ozone. This glove does not protect against ionising radiation.
- The shelf life of this glove in its original packaging stored under the conditions described below is 4 years.

#### ➤ Legislation, Risk analysis and recommendations for use


- This glove conforms to the regulation 2016/425.
- Please note, according to directive (UE) 89/656/EEC, the necessity to carry out a risk analysis relating to wearing the glove (e.g. breaking of leak tightness)
- Before each use, it is the responsibility of the user to check the quality and the integrity of the glove. The glove should be discarded if it has tears, holes or changes in surface appearance or colour that can show an alteration due to chemical products.
- For the assembly and disassembly of the gloves on the gloveboxes, please follow the instructions drafted by the safety manager and the glove port manufacturer.
- In case of a contamination, follow the instructions drafted by the safety manager.
- The gloves should be used at ambient temperature. Please contact the manufacturer for use under other temperature conditions.
- The gloves must be worn on clean and dry hands, with the nails cut short. Avoid wearing jewellery.
- In order to prevent possible risks of allergy and guarantee hand hygiene, it is recommended to wear disposable pre-gloves and to cover the forearm (long sleeves, cuffs, etc.)
- It is recommended to not wear gloves when there is a risk of being caught by moving machine parts.
- During the use of unspecified chemical products (those not mentioned in the list of chemical products), please contact the manufacturer for more information.
- The Material has been tested as per EN 1149-2 :1997 (conditions: 23°C/25% RH; test voltage 10V) and meets the requirements of EN 16350-2014;  
The vertical resistance is 17.0E+04 Ohms. The persons wearing protective gloves enabling electrostatic charge dissipation should be connected to the ground in a suitable manner, for example by wearing suitable shoes. Moreover, the user must wear suitable clothes.  
The gloves should not be taken out of their packaging, or be opened, adjusted or removed in flammable or explosive atmospheres, or while handling flammable or explosive substances. The electrostatic properties of the protective gloves can be modified in a detrimental manner by ageing, wearing them, contamination and deterioration; it is possible that they do not suffice for oxygen-enriched flammable atmospheres for which additional evaluations are required.
- The gloves must be worn, used in the initial side in which they were delivered by Piercan. In case of non-compliance, PIERCAN does not guarantee the performance claimed in the instruction manual.

#### ➤ Components:

This glove contains traces (> 0.0001%) of PAH (polycyclic aromatic hydrocarbons content) and must not be in direct contact with the skin.  
Hand and arm must be protected.

#### ➤ Properties of the glove

- Protection against chemical products evaluated as per **EN ISO 374-1+ A1 :2018**
- Resistance to deterioration evaluated as per **EN374-4 :2013**

Tested products		Level of permeation (palm and cuff)	Average deterioration –palm (%)	Average deterioration – cuff (%)	Pictogram
K	Sodium hydroxide 40%	6 of 6	14.1	9.4	
M	Nitric acid 65%	6 of 6	23.2	23.9	
P	Hydrogen peroxide 30%	6 of 6	6.1	18.3	

*This information does not reflect the actual duration of protection at the workplace, or the differentiation between the mixtures and pure chemical products. The chemical resistance has been evaluated under laboratory conditions using the samples collected in the palm and the cuff and only concerns the tested chemical product. It can be different if it is used in a mixture. It is recommended to check that the gloves are suitable for the intended use because the conditions at the place of work can differ from the typical test conditions, depending on the temperature, abrasion and deterioration. When they are worn, the protective gloves provide less resistance to hazardous chemical products owing to the change in their physical properties. Movements, tears, friction or deterioration caused by contact with chemical products, etc. can considerably reduce the actual duration of use. For corrosive chemical products, deterioration can be the most important factor to be taken into account in the selection of chemical-resistant gloves. Before use, it is recommended to inspect the gloves in order to ensure that they have no defects or imperfections.*



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- Protection against bacteria and moulds evaluated as per **EN ISO 374-5: 2016**  
Leak-tightness evaluated as per **EN374-2 :2014**

Tests	Level	Pictogram
Airtightness	Compliant	
Water-tightness	Compliant	

The resistance to penetration has been evaluated under laboratory conditions and only pertain to the tested test specimen.

- Protection against mechanical risks evaluated as per **EN388+A1: 2018**

Tests	Level	Pictogram
Abrasion	2 of 4	 2XX1X
Cut by slicing	X of 5	
Tear	X of 4	
Perforation	1 of 4	
Tests Section as per EN ISO 13997 :1999	X	
X: test not carried out		

- Precision, Integrity and ozone cracking

Tests	Level
Precision <b>EN ISO 21420 + A1 :2024</b>	3 of 5
Integrity (pressure 30 mbar) <b>EN421-2010</b>	Compliant
Ozone cracking resistance <b>EN421-2010</b>	3 of 4

The highest figures correspond to the highest performance levels.

#### ➤ Integrity EN421-2010

the “glove port diameter” and “form” lists are not exhaustive. For any requests, please contact PIERCAN.

GLOVE PORT DIAMETER (mm)	FORM	ORIGINAL LEAK-TIGHTNESS PRESSURE (mbar)
156	10	20
220	18,	20
250	85	20

#### ➤ Marking

- Example of marking put on the glove and the packaging (see below)
- If the rim of the glove has a specific diameter, the reference will be followed by ADA or ADD or ADG letters depending on the anatomy of the glove.

LOGO PIERCAN



PIERCAN

(1)



XXXXXXXXXX

(2)

10750 BHP Eb/Chim 8.5 E6 4.75 [XXXXXX]

(4) (5) (6) (7) (8) (9) (10)

FR XXXXXX LOT : XXXX

(11)



AAAA/MM

(12)



(13)



(14)



2XX1X

(15)



KMP

(16)



(17)



(18)

No.	DESCRIPTION
1	Manufacturer – In charge of release to the market
2	QR code and Unique Identifier
3	“CE” marking and No. of the body in charge of the annual inspection
4	Form
5	Length in mm
6	Material
7	Size
8	Thickness in 10th of mm
9	Diameter of rim in mm
10	Product Item Code
11	Case number and batch number (“FR” French manufacturing “US” American manufacturing)
12	Date of shelf life in storage + pictogram
13	“INFORMATION” pictogram
14	“Protection against radioactive contamination” pictogram EN 421 :2010
15	“Protection against mechanical risks” pictogram EN 388+A1:2018
16	“Protection against chemical risks” pictogram EN ISO 374-1 +A1 :2018
17	“Protection against bacteria and moulds” pictogram EN ISO 374-5 :2016
18	Electrostatic dissipative protective glove EN16350-2014

Attestations d'Examen UE de Type (AET) (EU type examination certifications) delivered by: I.F.T.H. (no. 0072) Avenue Guy de Collongue – 69134 ECULLY Cedex.

Monitoring organisation: AFNOR CERTIFICATION (no. 0333):11, rue Francis Pressensé-93571 LA PLAINE ST DENIS Cedex

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➤ **Sizes available in the main ambidextrous models**

FORMS	Ø RDG (glove port diameter)	SIZES					
		8.5	9	9.5	10	10.5	11
10	156	x		x	x		
18	220	x		x		x	
85	250		x		x		x

➤ **Suitable packaging for transport**

- The gloves should be transported in their original packaging.

➤ **Storage**

It is recommended to store gloves:

- In their original packaging, flat, black side of bag up and in their original box
- At a storage temperature between 5 to 35°C /41 to 95°F
- In a dry place away from direct light
- Away from electrical power source to prevent accelerated ageing.

➤ **Cleaning and maintenance**

- Gloves are not designed to be laundered.
- Prior to the use of unspecified chemicals, please contact the manufacturer for compatibility information.
- Do not contact gloves with sharp or pointed objects such as wire brushes, sandpaper, screwdrivers, or similar objects.
- If contaminated with chemicals, the gloves are for single use only

➤ **Treatment of the glove**

- Non-recyclable glove
- It can be discarded as simple non-toxic waste if it is not soiled by a hazardous product
- If a glove is soiled, discard it through the appropriate channel

The EU Declaration of Conformity is available at: [www.piercan.fr](http://www.piercan.fr)