

INSTRUCTIONS - GLOVEBOX GLOVES MADE OF CSM (Y) 4/10mm

➤ Scope/Characteristics of the material and expiry

- This glove can be used in the domain of life sciences (medical/pharmaceutical industries) and in nuclear industries.
- This glove is manufactured using chlorosulphonated polyethylene (CSM).
- This glove protects against certain chemical and mechanical risks, against radioactive contamination and provides protection against micro-organisms and viruses. 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 3 years.

➤ Legislation, Risk analysis and recommendations for use


- This glove conforms to the regulation 2016/425.
- Please note, according to directive 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.
- 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.

➤ Components:

- This glove does not contain substances in proportions in which they are known or suspected to have harmful effects on the user's health or hygiene under the foreseeable conditions of use.


➤ 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
A	Methanol	6 of 6	6.7	4.9	 AMP
M	Nitric acid 65%	6 of 6	-2.7	3.5	
P	Hydrogen peroxide 30%	6 of 6	-0.9	9.0	


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.

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

Tests	Level	Pictogram
Airtightness	Compliant	 VIRUS
Water-tightness	Compliant	
Penetration by contaminated liquids under hydrostatic pressure (ISO 16604 method B)	No passage	

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: 2016**

Tests	Level	Pictogram
Abrasion	3 of 4	 3XX1X
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		



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- Precision, Integrity and ozone cracking

Tests	Level
Precision EN420+ A1:2009	5 of 5
Integrity (pressure 30 mbar) EN421-2010	Compliant
Ozone cracking resistance EN421-2010	4 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)
136	54,64...	20
156	10	30
186	16, 56...	20
220	18, 28...	20
250	85	20
300	97	20
350	93	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.

PIERCAN LOGO

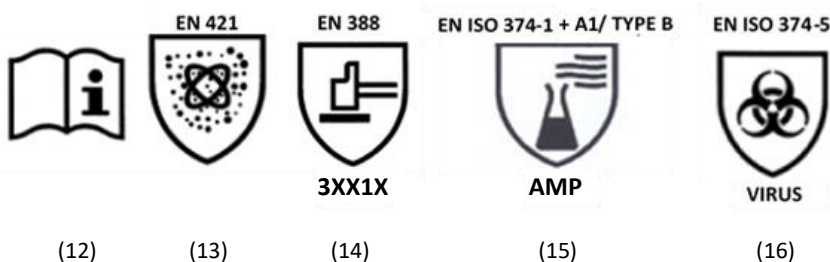
PIERCAN (1)

CE 0333 (2) 10750 Y 9.5 E4 5 [XXXXXX]

(3) (4) (5) (6) (7) (8) (9)

FR XXXXXX BATCH:XX XX (10)

EXPIRY:XX/XX/XXXX (11)



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

➤ Sizes available in the main ambidextrous models

FORMS	Ø RDG (glove port diameter)	SIZES					
		8.5	9	9.5	10	10.5	11
54	136			x			
10	156	x		x	x		
16	186		x		x		x
18	220	x		x		x	
85	250		x		x		x
97	300	x	x			x	

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

PIERCAN: Impasse des Macareux ZI Huppain / 14520 PORT EN BESSIN FRANCE Tel.: 33 (0)2 31 21 73 80 Fax: 33 (0) 2 31 21 40 23 Email: piercan @ piercan.fr Website: www. Piercan.fr

Instructions: Edition of 12/03/2019 Rev 2



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➤ **Suitable packaging for transport**

- The gloves should be transported in their original packaging.

➤ **Storage**

- Store in a dry place, away from light
- Storage temperature: 5 to 25°C.
- Do not store near electrical installations to avoid accelerated ageing

➤ **Cleaning and maintenance**

- If necessary, the gloves are washed with soapy water, rinsed with clear water, and dried under a low temperature air flow (<40°C) and powdered. The performance is not guaranteed by the IFTH after washing
- Do not use chemical products
- Do not use pointed or sharp objects like wire brushes, sandpaper or similar objects

➤ **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