cryokit®
cryogenic protection

CRYOGENIC PROTECTION AND ULTRACOLD ENVIRONMENT

CE 0161

Cat. II PPE

Performance:	
Dry grip	E
Wet grip	E
Thermal insulation	E
Reaction to heat	B
Reaction to oils	B

B=good, O=very good, E=excellent, NC=not recommended/not tested

CRYOLITE-HP01

Cryogenic gloves in waterproof grain leather, rendered waterproof by a **Porelle®** membrane, interior in multilayer polyester fleece. Sleeve in split leather. Total glove length 38 cm. Seams in **NYLON®**

Recommended for all tasks in the presence of liquid nitrogen and other cryogenic gases to prevent contact cold and burns in the event of liquid gas leaks and spills in light-duty industrial settings.
Suitable for use in the presence of liquid oxygen. Suitable for protection against contact heat (max 250°C)

EN 388:2016+A1:2018	EN511:2006	EN407:2020
3122X	131	X2XXXX

Code/Sizes (*)

CRYOLITE-HP01	**8**	**9**	**10**	**11**

INFORMATION NOTE AND INSTRUCTIONS FOR USE

DESCRIPTION and CHARACTERISTICS

These gloves are category III Personal Protective Equipment (PPE) and are therefore subject to annual inspection in accordance with Regulation EU 2016/425.
These gloves comply with the requirements of harmonised technical standards ISO 21420:2020, EN 388:2016+A1:2018, EN 407:2020, EN 511:2006.
CE Certificate No.23/5884/00/161issued by AITEX Notified Body 0161

These gloves are made of soft water-repellent cowhide grain leather. The interior features a special membrane to make it breathable but which does not allow liquids to penetrate inside. Protection from the cold is guaranteed by an internal lining in soft polyester fleece.

RECOMMENDED USES/APPLICATIONS
Gloves intended for protection against the risks deriving from liquefied gases (cold burns and frostbite from the intense cold, leaking liquid, splashes) during loading, storage and decanting.
Loading/storage/decanting of cryogenic liquefied gases by staff in charge of handling, contact with cryogenic gases. They protect against contact with cold objects and against liquefied gas splashes (liquid nitrogen). Protect against contact with hot objects (max 250°C).
The hazards deriving from handling cryogenic liquefied gases are in direct relation to the extremely low temperatures of such substances.
Exposing skin to extremely low temperatures can cause damage similar to burns.
Although the gloves withstand contact with liquid nitrogen, contact with such a substance must be accidental: do not immerse the gloves in liquefied gas.
Contact with liquefied gas hardens the materials used to make the gloves: in case of contact check after 20/30 seconds that the gloves have returned to their original softness and that there are no cracks/holes.

RISKS
The gloves are suitable against risks of:
- abrasion; small cut by blade/sheet metal;
- tearing; puncture/penetration;
- contact with cold and cryogenic gases.
- Contact heat

The gloves are NOT suitable against risks of:
- fire;
- chemicals;
- all risks not mentioned in the Information Note herein.

ALLERGENS
The manufacturer is not aware of the presence of any allergens. Kindly report any cases observed of hypersensitivity or allergic reaction.
Upon contact with the skin on particularly sensitive people, any glove could cause allergic reactions not envisaged by the manufacturer. In such cases, we recommend you seek immediate medical advice.

CE CERTIFICATION
CE Certificate No.23/5884/00/0161issued byAITEX Notified Body 0161

Subject to specific liquid nitrogen resistance test, by contact and subsequent control.
N.B.: the performance level concerns the palm side, including fingers; nevertheless, the uniformity of materials and processing makes the back of the glove also protective.

Explanation of EN388 levels
(a) Abrasion resistance (values from 1 to 4)
(b) Blade cut resistance (values from 1 to 5)
(c) Tear resistance (values from 1 to 4)
(d) Puncture resistance (values from 1 to 4)

Explanation of EN511 levels
(a) Level obtained against convective cold (values from 1 to 4)
(b) Level obtained against contact cold (values from 1 to 4)
(c) Water penetration (0=not waterproof, 1=waterproof)

Made in Italy – CRYOKIT® is a registered trademark of Kora Srl

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MARKING
The following marking can be found on the label:

CE	CE marking, testify the conformity with the health and safety requirements of Annex II of Regulation (EU) 2016/425
0161	Notified Body performing the inspection of the PPE manufactured
CRYOKIT	Manufacturer's registered trade mark
CRYOLITE-HP01	Glove model
10 (example)	Size
	Pictogram referring to the information note.
abcd	**EN388**+pictogram relating to the mechanical risks explained below: 2(a) 1(b) 2(c) 2(d) This pictogram indicates that the gloves were designed for mechanical risks and the numbers at the foot indicate the levels obtained during laboratory tests (see explanation below).
abc	**EN 511** + related pictogram for protection against cold explained below: (a) 1 = level obtained against convective cold (b) 3 = level obtained against contact cold (c) 1 = level obtained against water penetration
abcdef	**EN 407** + related pictogram for protection against contact heat explained below: X2XXXX (max 250°C for 15 seconds)

IDENTIFICATION AND CHOICE OF SUITABLE GLOVES
The choice of suitable glove model must be made according to the specific requirements of the workplace, the type of risk and the related environmental conditions.
The responsibility for identifying and choosing the appropriate/suitable pair of gloves (PPE) lies with the employer.
Consequently, it is a good idea to check, before use, the suitability of the characteristics of this glove model for your specific requirements.

PRELIMINARY CHECKS AND USE: WARNINGS
Before use, perform a visual inspection of the gloves to make sure they are in perfect condition, clean and intact.
Should the gloves not be intact (visible damage such as loose seams, breakages or smudges), they must be replaced.

MAINTENANCE INSTRUCTIONS AND EXPIRY DATE
New gloves are packed in series of 5 pairs, in a packet containing the information note. The gloves must be kept in their original packet, in a dry place away from sources of heat. Avoid contact with solvents which could alter the characteristics.
In particularly strenuous conditions of use or in settings with special situations, the gloves may be subject to sudden and unexpected deterioration not envisaged by the manufacturer. Consequently, it is not possible to establish an "expiry date".

CLEANING
NO WASHING IS PERMITTED to avoid the glove losing its safety characteristics.
After use, the exterior of the gloves should be cleaned with a light detergent solution and left to dry in the open. Any contaminants must immediately be removed.

(*) Size measurement details (mm)	User's hand length (mm)	Circumference of hand (mm)
8	182	203
9	192	229
10	204	254
11	215	279