

CRYOLKIT®

cryokit® version 1.0

CRYOGENIC PROTECTION



CRYOKIT

Specialized range of gloves and accessories to protect operators in presence of liquid nitrogen and other cryogenic gases. PPE (Personal Protective Equipment) manufactured with selected technical materials following strict control rules and subjected to rigorous tests of strength and durability. CE certification: 3rd category.

FEATURES



- Main features of a cryogenic glove for protection:
- Ability to protect from the contact with cold for a long time
 - Waterproofness and insulation from cryogenic liquids, without losing flexibility and dexterity.
 - Resistance to low temperatures of the materials the glove is made of. The cryogenic gas will not cause any damage to the glove.

The main function of the Porelle® membrane is to ensure waterproofness in use, keeping the hand of the user dry and comfortable. However, obviously during work operations the hands are sweating, and a micro-climate inside the glove is created; if the sweat is accumulated inside it is possible the quick formation of a wet layer, leaving the damp cold feeling.



In the cryokit® gloves the presence of the membrane is shown on the label stitched on the glove..



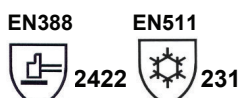
CRYOKIT-400

Cryogenic waterproof glove made of a special elastic and laminated blue fabric. Internal insulation polyester multilayer fleece (410g / m²) and polyolefin Porelle® membrane, 15 cm same fabric/lining cuff. NYLON® Stitching. Overall length of the glove 40 cm.

Suitable for all jobs in presence of liquid nitrogen and other cryogenic gases to protect from cold contact and prevent burns in case of leakage of liquid gas.



DPI di 3a cat.



CE 0498

USO CRIOGENICO
CRYOGENIC USE
WATERPROOF

Reference/sizes

CRYOKIT-400	8	9	10	11



CRYOKIT-550

Cryogenic waterproof glove made of a special elastic and laminated blue fabric. Internal insulation polyester multilayer fleece (410g / m²) and polyolefin Porelle® membrane. 30 cm same fabric/lining cuff. NYLON® Stitching. Overall length of the glove 55 cm.

Suitable for all jobs in presence of liquid nitrogen and other cryogenic gases to protect from cold contact and prevent burns in case of leakage of liquid gas.



DPI di 3a cat.

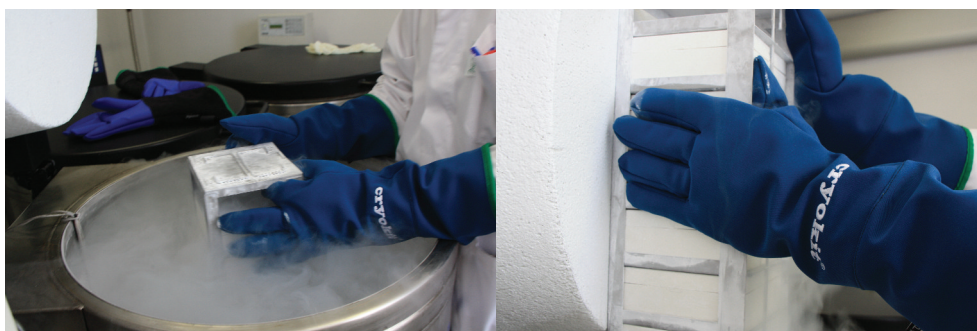


CE 0498

USO CRIOGENICO
CRYOGENIC USE
WATERPROOF

Reference/sizes

CRYOKIT-550	8	9	10	11





CRYOPLUS

Cryogenic waterproof glove made of a special coated and laminated blue fabric. Internal insulation polyester fleece (240 g / m²) and polyolefin Porelle® membrane, 15 cm split leather safety cuff with tightening / adjustment by VELCRO®, NYLON® Stitching. Overall length of the glove 40 cm.

Suitable for all jobs in presence of liquid nitrogen and other cryogenic gases to protect from cold contact and prevent burns in case of leakage of liquid gas.



Reference/sizes				
CRYOPLUS	8	9	10	11



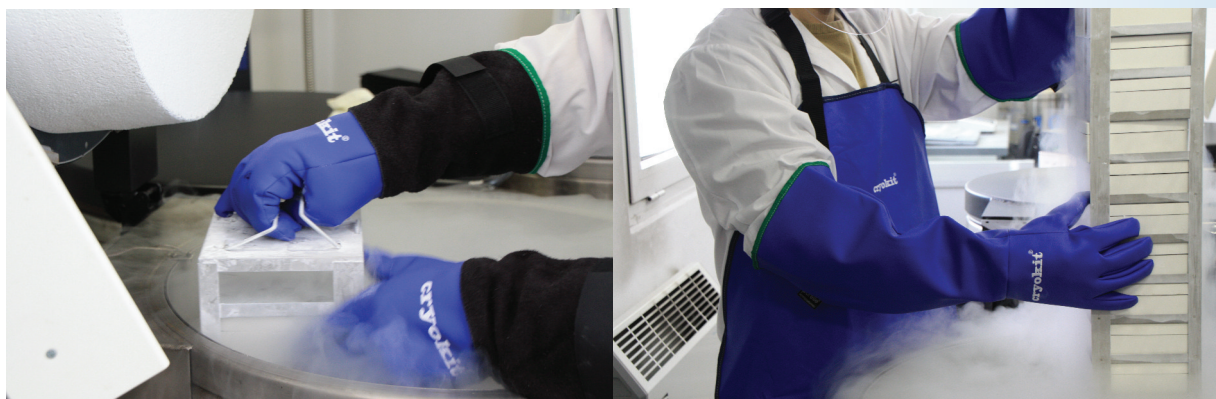
CRYOPLUS-55

Cryogenic waterproof glove made of a special coated and laminated blue fabric. Internal insulation polyester fleece (240 g / m²) and polyolefin Porelle® membrane, 30 cm same fabric/lining 30 cm cuff. Overall length of the glove 55 cm. NYLON® Stitching.

Suitable for all jobs in presence of liquid nitrogen and other cryogenic gases to protect from cold contact and prevent burns in case of leakage of liquid gas.



Reference/sizes				
CRYOPLUS-55	8	9	10	11





DPI di 3a cat.

EN388 2222 EN511 331
CE 0498
 USO CRIOGENICO
 CRYOGENIC USE
 WATERPROOF

CRYO-LITE

Water-repellent grain leather cryogenic glove for light industrial application.

Internal insulation polyester fleece (320 g/sqm) and polyolefin film Porelle®, that ensures waterproofness. 15 cm split leather safety cuff with tightening / adjustment by VELCRO®. NYLON® Stitching. Overall length of the glove 40 cm.

Suitable for all jobs in presence of liquid nitrogen to prevent cold contact and burns if leakage of liquid gas for light industrial use.

Reference/sizes

CRYO-LITE	8	9	10	11
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DPI di 3a cat.

EN388 3243 EN511 231
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 USO CRIOGENICO
 CRYOGENIC USE
 WATERPROOF

CRYO-HD

Water-repellent grain leather (1.2 mm) cryogenic glove for heavy duty application.

Internal insulation polyester fleece (320 g/sqm) and polyolefin film Porelle®, that ensures waterproofness. 15 cm split leather safety cuff. Overall length of the glove 38 cm. Nylon® Stitched.

Suitable for all jobs in presence of liquid nitrogen to prevent cold contact and burns if leakage of liquid gas for heavy industrial use.

Reference/sizes

CRYO-HD	10	11
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T-CRYO-LIGHT

Cryogenic Reusable Apron

Protection from splashes of cryogenic gases.

Made of a special extra resistant composite coated fabric, with adjustable clips buckles, both in the collar and waist. Polyester shoulder with easy clip closure.

Dimensions: 70 x 90 cm. (other sizes on request)



DPI di 3a cat.

EN388



3221

EN511



321

CE 0302

USO CRIOGENICO
CRYOGENIC USE
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Suitable for all laboratory application in presence of liquid nitrogen.

Reference/sizes

T-CRYO-LIGHT

70x90 cm



GHETTE-CRYO

Overshoes for cryogenic use, protection from liquid gases splashes.

Made of a special composite coated fabric.

Waterproof, resistant.

For feet protection, to wear over foot.

Universal size suitable for any application.

Closure with polyester system VELCRO laces.



DPI di 3a cat.

EN388



3221

EN511



321

CE 0302

USO CRIOGENICO
CRYOGENIC USE
WATERPROOF

CLEAR-CRYO®

Face shield for protection from liquid gas splashes.

PPE III cat. Complex design - CE EN 166

Face shield for protection from liquid gas splashes.

Ergonomic headgear made of anallergic material.

Interchangeable front foam sweatband.

Upper band for height adjustment of the cap.

Adjustment of the head circumference by rack (53 to 61 cm).

90° flip-up through friction.

Clear polycarbonate visor (395x240x2 mm).



VISION-CRYO®

Goggle for splash protection

PPE III cat. Complex design - CE EN 166

Goggle for splash protection

Ultra-light goggle made of nylon

Available both with elastic cord and adjustable elastic band. Soft foam for improved adherence to the face.

Model certified in accordance with

EN166 point 3 (droplets and splashes)



CRYOGENIC CARRYING CASE

Practical carrying case containing:

- 1 pair of CryoPlus glove
- 1 T-Cryo Light apron
- 1 Clear Cryo Face shield
- 1 pair of overshoes Ghetto-Cryo

designed for personal equipment, useful for the preservation of PPE from dust and light.
Suitable as emergency equipment on board vehicles.



Reference
CRYOKIT- CASE



The safety using cryogenic liquefied gas greatly depends on the knowledge of their properties and compliance with simple precautions suggested by common sense.

In general

The main safety precautions are related to the characteristics that are common to all cryogenic liquefied gas:

- Extremely low temperatures
- evaporation growth of large volumes of gas coming from small amounts of liquid
- Accumulation tendency of cold vapor in the lower strata of the environment.

Specific precautions are necessary for certain gases: concerning Oxygen, for example, you have to prevent its contact with substances that may react violently. It is very important that users have a thorough understanding of the specific precautions suggested by the gas supplier and instructions on how to use devices and equipment.

The most common hazards

The exposure of the skin to very cold temperatures can cause damage similar to burns. Prolonged exposure causes frostbite. Low temperature vapors inhalation can damage the lungs. Cryogenic liquids and vapors can cause eye damage. Touching cold surfaces (pipes or non-insulated vessels), the skin may adhere very firmly due to the freezing of traces of moisture and tear when you try to remove it. Excessive concentrations of oxygen increase the danger of fire and also substances that burn in air with relative difficulty. Excessive concentrations of other gases, reducing the percentage of oxygen in the environment, can lead to the danger of asphyxiation.

General Cautions

WEAR SUITABLE PROTECTIVE CLOTHING AT LOW TEMPERATURES.

Protect your eyes with a face shield or goggles equipped with lateral protection. Always wear gloves made by non-absorbent materials to handle objects that are or have been in contact with the liquid. The gloves should be comfortable and possibly be removed and discarded quickly in case of accidental contact with the liquid. During the decanting (transfer) operation the use of apron and overshoes is recommended.

Avoid contact

If you are charging a warm container or inserting an object into the hot liquid there is the possibility of spurts. Keep a safe distance and operate slowly wearing a protective shield for the face. Use pliers or tongs to dip or remove objects from the liquid. Keep in mind that many resistant materials and plastics at room temperature become hard and brittle at low temperatures.

Avoid vapors accumulation and concentration

Make sure that in the environment in which you operate there is proper ventilation. Avoid spills and leaks of liquid. Don't pour any liquids in small sites or rooms. Always keep in mind the possibility of accumulation of vapors in cold burrows, etc. Then ensure ventilation.

First Aid In case of accident with cold exposure:

Wash affected areas with warm water, avoid the rubbing and the removal of clothes, if possible. Do not expose to direct heat. If there are symptoms of frostbite, injury or extensive damage to the eyes, take the injured person to a doctor. In the meanwhile, protect the affected parties with a soft garment, dry and clean, keep the patient warm and at rest. No alcoholic beverages.

General recommendations

For the installation of equipment or piping for cryogenic liquefied gas always consult an expert previously. The low temperatures require the use of building materials and techniques for the isolation and in those particular conditions there are problems of thermal expansion and contraction. The carbon steels become brittle and are not suitable with temperatures associated with the use of liquefied cryogenic gas.

Comply with manufacturer's instructions

Ensure that personnel using cryogenic liquefied gas has been properly trained and it is mandatory to follow carefully the instructions of the manufacturer and / or supplier for use and maintenance of the equipment.

Extracted from:

Assogastecnici (Federchimica) Via Giovanni da Procida, 11, Milan (Italy) <http://assogastecnici.federchimica.it>

The content of this information is merely for information and has no legal value. The only mandatory provisions are those contained in the existing legislation to which reference should be made.

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