



# Cryo-LNG™ Gloves



Hand Protection When Working with Liquid Nitrogen  
in Industrial Settings, including LNG servicing



GLOVE LENGTH	MID-ARM	ELBOW
	13½"-15¾" (345-400mm)	17½"-20" (445-505mm)
GLOVE SIZE		
<b>Medium/9</b>	Brown ● CLMMWP Blue ● B-CLMMWP	Brown ● CLEMWP Blue ● B-CLEMWP
<b>Large/10</b>	Brown ● CLMLWP Blue ● B-CLMLWP	Brown ● CLELWP Blue ● B-CLELWP
<b>X-Large/11</b>	Brown ● CLMXWP Blue ● B-CLMXWP	Brown ● CLEXWP Blue ● B-CLEXWP
<b>XX-Large/12</b>	Brown ● CLMXXWP Blue ● B-CLMXXWP	Brown ● CLEXXWP Blue ● B-CLEXXWP

## Features

- Abrasion resistant palm for provides extra protection for industrial applications
- A thin, seamless 100% waterproof liner provides protection from spills and splashes
- Gloves are designed to provide a high level of thermal protection where the exposure to cryogenic fluids might exist
- Cryogenic protection for ultra-cold applications down to -196°C (-320°F)
- State-of-the art materials and a multi-layered construction allow for a maximum level of thermal protection, flexibility, and dexterity which are essential features when function is important and safety is critical
- High performance, thermal inner lining wicks moisture away from hands, maintaining comfort over extended periods
- Safety certified to meet EU standards: EN 511, EN 388, EN ISO 21420
- **Applications:** Delivering cryogenic gases, servicing cryogenic systems, working in mining, oil, gas, and LNG facilities



EN ISO 21420

CE Cat. III

**CAUTION** Not for immersion in liquid cryogenics

**Statement of Use:** Cryo-LNG™ Gloves are multi-layer protective cryogenic gloves designed to provide a high level of protection to the hands and arms from extremely cold temperatures in cold atmospheres, from transmission of cold through direct contact with cold objects, from splashes and contact with cold liquids and from cuts and scrapes due to contact with sharp metal objects. The gloves are intended for use in a variety of applications and under a wide range of conditions where cold protection, waterproofness and abrasion resistance are required in a cryogenic glove.


- Gloves should be loose fitting for maximum performance and for rapid removal in hazardous environments.
- Emergency removal is accomplished by a hard downward shake of the affected hand and arm.
- Proper fit contributes to product performance - a tight fit leads to thermal loss. A loose fit leads to poor dexterity.
- Select an appropriate glove length for your application.
- Periodically inspect the condition of your gloves - replace gloves that are punctured, damaged, or that show excessive wear.

**Limits of Use:** The maximum duration of exposure at ultra cold temperatures is dependent on many variables, including atmospheric conditions, the task being performed and the user's physiology. The thermal flux transmitted through the glove is sufficiently low to allow the user adequate time to safely remove themselves from the hazard.

**Warning:**

- Not for immersion in liquid cryogenics.
- Not for protection against heat. Do not use near open flames or ignition sources.
- Due to their low vapor absorption and transmission relating to perspiration, the gloves should be used for short periods.
- The gloves have limited dexterity, making them incompatible for working with very small objects.
- Do not wear when there is a risk of entanglement in moving parts of a machine.

**Care instructions:** Store in a clean dry space.

Do not machine wash or dry.\* 

\* Cryo-LNG™ Gloves were not submitted for CE wash testing.

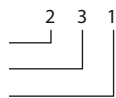
**Packaging:** Cryo-LNG™ Gloves are packaged in pairs in poly bags. For shipping, individually packaged pairs of gloves shall be additionally packaged in a suitable packing carton constructed to meet all applicable freight requirements.

**Cryo-LNG™ Gloves** satisfy all the basic health and safety requirements of the PPE Regulation (EU) 2016/425. They are ergonomically designed, absent of risks and nuisance factors, contain no materials known to cause allergies or health hazards, and are comfortable to wear for extended periods.

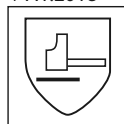
EN 511:2006



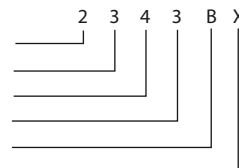
Convective cold  
Contact cold  
Water impermeability



EN 388:2016  
+ A1:2018



Abrasion Resistance  
Cut Resistance (Coup)  
Tear Resistance  
Puncture Resistance  
Cut Resistance (TDM)  
Impact Resistance



Performance: EN 511:2006	Level	Performance: EN 388:2016 + A1:2018 ‡	Level
Convective Cold .....	2 / 4*	Abrasion Resistance .....	2 / 4*
Contact Cold .....	3 / 4*	Cut Resistance (Coup test) .....	3 / 5*
Water Impermeability .....	1 / 1*	Tear Resistance .....	4 / 4*
Extreme Cold Flexibility (temperatures below 50° c) .....	Pass	Puncture Resistance .....	3 / 4*
* The highest numbers ( _ / _ ) correspond to the highest levels that can be achieved according to the testing methods.		Cut Resistance (TDM test) .....	B / F *
‡ The actual levels achieved For EN 388 tests (first number) do not necessarily reflect the performance of the outermost layer.		Impact Resistance .....	X
		"X" indicates that the test has not been performed because it is not applicable for the glove's intended use.	


Performance: EN ISO 21420:2020	Level
pH .....	Pass
Dexterity .....	0 / 5*
* "0" indicates that the performance falls below the minimum performance level.	

Cryo-LNG™ Gloves Available sizes and styles:					
Model	Size:	U.S.	EN ISO 21420:2020	Model	Size: U.S. EN ISO 21420:2020
<b>Mid-Arm Length</b>			<b>Elbow Length</b>		
CLMMWP / B-CLMMWP	M	9	CLEMWP / B-CLEMWP	M	9
CLMLWP / B-CLMLWP	L	10	CLELWP / B-CLELWP	L	10
CLMXWP / B-CLMXWP	XL	11	CLEXWP / B-CLEXWP	XL	11
CLMXXWP / B-CLMXXWP	XXL	12	CLEXXWP / B-CLEXXWP	XXL	12

Performance: EN ISO 14184-1:2011	Level
Formaldehyde .....	< 16 mg / kg (not detectable)

Retain this document for your records. Additional copies can be obtained from our Customer Service Department at [info@tempshield.com](mailto:info@tempshield.com). Copies of the EU Declaration of Conformity may be obtained at the following web address: <https://tempshield.com/pages/eu-declaration-of-conformity>.

 Cat. III EU Type Examination was conducted by ASOCIACION DE INVESTIGACION DE LA INDUSTRIA TEXTIL Plaza Emilio Sala, 1 E-03801 ALCOY (ALICANTE) Spain Notified Body # 0161.

 Cat. III The item is subject to the conformity assessment procedure Module D under surveillance of Shirley®, Port Tunnel Business Park, Office 13 Unit 21, Dublin 17, ROI, Notified Body # 2895.