

Tempshield

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Notice of Use: **Cryo-Gloves**

Issue Date: October 15, 2025


Statement of Use: Cryo-Gloves® are multi-layer protective cryogenic gloves designed to provide a high level of protection to the hands and arms from extremely cold temperatures, both in cold atmospheres and from transmission of cold through direct contact with cold objects. The gloves are intended for use in a variety of applications and under a wide range of conditions where cold protection and durability are required in a cryogenic glove. They also offer limited protection against mechanical risks on the palm area.

- Proper fit contributes to correct product performance - a tight fit leads to thermal loss. A loose fit leads to poor dexterity.
- Gloves should be loose-fitting enough for rapid removal in hazardous environments.
- Emergency removal is accomplished by a hard downward shake of the affected hand and arm.
- Select an appropriate glove length for your application: WR_ for protection to the hand (the wrist area is not protected); MA_ for protection to the mid-arm; EB_ for protection to the elbow; SH_ for protection to the shoulder.
- The date of manufacture is listed on the inside label. The lifespan varies depending on the number of uses, the tasks being performed, storage, and cleanliness. Periodically inspect the condition of your gloves. Replace gloves that are cut, torn, punctured, or are abraded to the white liner. Dispose of gloves at end of life according to local regulations for wearing apparel.

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 cryogens.
- These gloves are not completely waterproof, and they may lose their insulating properties when wet. When handling cryogenic liquids, Waterproof Cryo-Gloves® should be used.
- Due to their low vapor absorption and transmission relating to perspiration, the gloves should be used for short periods.
- Not for protection against heat. Do not use near open flames or ignition sources.
- 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 store underneath heavy objects that could compress the insulation. Do not machine wash or dry.* 

* Cryo-Gloves® were not submitted for CE wash testing.

Disinfection: Cryo-Gloves® should not be sterilized by autoclave to maintain their full cold protective capabilities.

Packaging: Cryo-Gloves® are packaged in pairs in LDPE N° 4 recyclable poly bags.

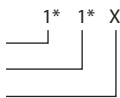
For shipping: Individually packaged pairs of gloves shall be additionally packaged in a suitable recyclable cardboard shipping carton constructed to meet all applicable freight requirements.

Cryo-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



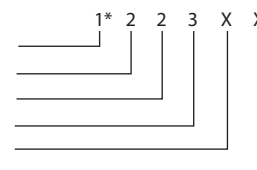
Convective Cold
Contact Cold
Water Impermeability



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	AITEX (Notified Body 0161) Liquid Nitrogen Splash Test
Convective Cold	1* / 4 **	Abrasion Resistance	1* / 4 **	Placed under a 500ml pour of liquid nitrogen, the average ‡ ± drop in internal glove temperature is: 1.13°C at 30 seconds 2.38°C at 60 seconds ‡ ± based on 6 measurements.
Contact Cold	1* / 4 **	Cut Resistance (Coup test)	2 / 5 **	
Water Impermeability	X	Tear Resistance	2 / 4 **	
Flexibility Behavior	Pass	Puncture Resistance	3 / 4 **	
Extreme Cold Flexibility (-50° C)	Pass	Cut Resistance (TDM test)	X	
		Impact Resistance	X	
* Testing supports a Convective Cold level of 3 and Contact Cold level of 2, but the Abrasion Resistance level of 1 allows reporting of Cold levels of 1 only.		‡ The actual levels achieved for EN 388 tests (first number) do not necessarily reflect the performance of the outermost layer.		
** The highest numbers (_ / _) correspond to the highest levels that can be achieved according to the test methods.		“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			Performance: EN ISO 21420:2020 EN ISO 14362-1:2017 Level			Performance: EN ISO 14184-1:2011 Level					
pH Pass			Azo Colorants < 30 mg / kg			Formaldehyde < 16 mg / kg (not detectable)					
Sizing 8 - 9 - 10 - 11 - 12 - 13											
Dexterity 2 / 5 **											
** The highest numbers (_ / _) correspond to the highest levels that can be achieved according to the test methods.											
Cryo-Gloves® Available styles and sizes:											
Model	Size: U.S.	EN ISO 21420:2020	Model	Size: U.S.	EN ISO 21420:2020	Model	Size: U.S.	EN ISO 21420:2020	Model	Size: U.S.	EN ISO 21420:2020
Wrist Length			Mid-Arm Length			Elbow Length			Shoulder Length		
WRS	S	8	MAS	S	8	EBS	S	8	SHS	S	8
WRM	M	9	MAM	M	9	EBM	M	9	SHM	M	9
WRL	L	10	MAL	L	10	EBL	L	10	SHL	L	10
WRXL	XL	11	MAXL	XL	11	EBXL	XL	11	SHXL	XL	11
WRXXL	XXL	12	MAXXL	XXL	12	EBXXL	XXL	12	SHXXL	XXL	12
WR3XL	3XL	13	MA3XL	3XL	13	EB3XL	3XL	13	SH3XL	3XL	13

Retain this document for your records. Additional copies can be obtained from our Customer Service Department at 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, and certificate no. 19 / 1102 / 01 / 0161 issued, by ASOCIACION DE INVESTIGACION DE LA INDUSTRIA TEXTIL, Carretera de Bañeres N° 10 and Calle Societat Unió Musical 03802 Alcoy (ALICANTE) Spain, Notified Body # 0161.



Cat. III

The gloves are subject to the conformity assessment procedure Module D of the EU PPE Regulation (Regulation (EU) 2016/425), with certificate no. SH00311. This is under the surveillance of Notified Body Shirley®, Port Tunnel Business Park, Office 13 Unit 21, Dublin 17, ROI, Notified Body # 2895.