

are multi-layer protective garments, designed to provide a high level of safety for hands, arms and body from extremely cold temperatures. (-160°C.) The gloves are intended for use in a variety of applications and under a wide range of conditions.

Application: Cold rooms, Blast freezer, filling of cryogenic liquids, dry ice handling in Research - and Clinical -, Pharmaceutical Laboratories, Genetic and Biotechnology, Fertility Clinics, Cryogenic grinding and many more in industrial applications.

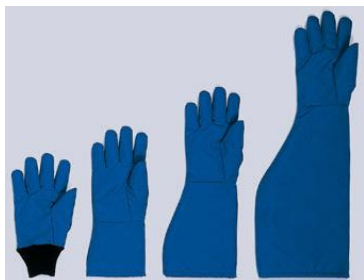
Warning: Not for immersion in liquid cryogen's !

CRYO GLOVES® are available as CRYO GLOVES® *water-resistant* and in CRYO GLOVES® WP 100 % *water-proof*, with an extra seamless inner glove - recommended when handling cryogenic liquids.

CRYO GLOVES® / CRYO APRON® satisfy all the basic health and safety requirements of the PPE Directive. CE Mark.

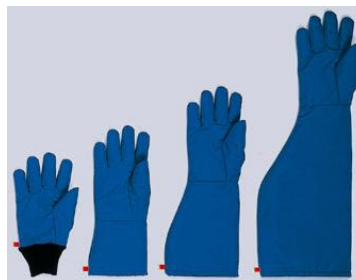
CRYO GLOVES®, CRYO GLOVES® WP, CRYO APRON® and CRYO INDUSTRIAL®GLOVES

are trademarked, made by Tempshield, Inc. USA



CRYO GLOVES®

512	WRS	8	small	300 mm
512	WRM	9	medium	300 mm
512	WRL	10	large	300 mm
512	WRXL	11	extra large	300 mm
514	MAS	8	small	400 mm
514	MAM	9	medium	400 mm
515	MAL	10	large	400 mm
515	MAXL	11	extra large	400 mm
518	EBM	9	medium	500 mm
520	EBL	10	large	500 mm
520	EBXL	11	extra large	500 mm
527	SHM	9	medium	700 mm
528	SHL	10	large	700 mm
528	SHXL	11	extra large	700 mm



CRYO GLOVES® WP waterproof

512	WRS	WP	8	small	300 mm	wrist length
512	WRM	WP	9	medium	300 mm	wrist length
512	WRL	WP	10	large	300 mm	wrist length
512	WRXL	WP	11	extra large	300 mm	wrist length
514	MAS	WP	8	small	400 mm	mid arm length
514	MAM	WP	9	medium	400 mm	mid arm length
515	MAL	WP	10	large	400 mm	mid arm length
515	MAXL	WP	11	extra large	400 mm	mid arm length
518	EBM	WP	9	medium	500 mm	elbow length
520	EBL	WP	10	large	500 mm	elbow length
520	EBXL	WP	11	extra large	500 mm	elbow length
527	SHM	WP	9	medium	700 mm	shoulder length
527	SHL	WP	10	large	700 mm	shoulder length
528	SHXL	WP	11	extra large	700 mm	shoulder length

CRYO APRON®

Protection from cryogenic atmospheres and splashes
Adjustable straps at neck and waist
Comfortable / Lightweight / Breathable

CA 36	610 mm x 920 mm
CA 42	610 mm x 1070 mm
CA 48	610 mm x 1220 mm
CA 54	610 mm x 1380 mm



CRYO INDUSTRIAL® GLOVES

Thermal protection in a rugged abrasion resistant outer shell , wrist, mid arm and elbow gauntlet in style available. The CIG WP gauntlet glove has insulated cuff, adjustable cinch strap for secure closure over a wide range of outer garments.

Application: Handling cryogenic valves, supply cylinders and transfer hoses, cryo treatment of metals, cryogenic grinding, shrink -technical handling. Please ask for information



WATERPROOF Cryo-Gloves®

WATERPROOF Cryo-Gloves®

Hand Protection when working with Liquid Nitrogen

Waterproof Cryo-Gloves® made by Tempshield protect your hands and arms when working in hazardous, ultra-cold environments. Gloves are designed to provide a high level of thermal protection where the exposure to cryogenic fluids might exist.

Made from state-of-the-art materials, our waterproof cryogenic gloves are designed to keep you dry and to wick moisture away from your hands, so you can work in comfort for extended periods of time. A thin, seamless 100% waterproof liner provides protection from spills and splashes. Our multi-layered construction allows for a maximum level of thermal protection, flexibility, and dexterity—essential features when function is important and safety is critical.



Shoulder

Elbow

Mid-Arm

Wrist

WATERPROOF
Cryo-Gloves®
TEMPSHIELD

FEATURES

- Maximum Thermal Protection
- Waterproof
- Lightweight and Comfortable
- Excellent Dexterity
- Breathable and Stay-dry Lining

STYLES

Wrist (WR)

11¼"-12½" (290-320mm)

Mid-Arm (MA)

13½"-15¼" (345-390mm)

Elbow (EB)

17¼"-19¼" (440-485mm)

Shoulder (SH)

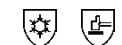
24¾"-27" (625-685mm)

US SIZES

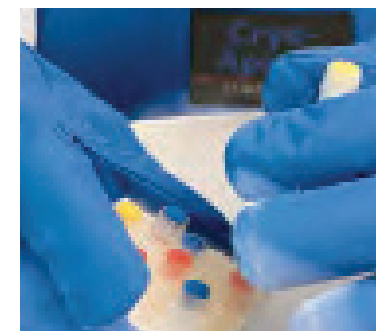
- Small (S)
- Medium (M)
- Large (L)
- Extra Large (XL)

EN SIZES

- (8) (9) (10) (11)



EN 511 EN 388 EN 420



CAUTION Not for immersion in liquid nitrogen

Tempshield, Inc.

P.O. Box 199 Mt. Desert, ME 04660 USA

Notice of Use: **Waterproof Cryo-Gloves®**

Issue Date: 10/23/99 Rev.: B

Statement of Use: Waterproof 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, in cold atmospheres, from transmission of cold through direct contact with cold objects, and for splash protection from cold liquids. The gloves are intended for use in a variety of applications and under a wide range of conditions.

- Gloves should be loose fitting for maximum performance and for rapid removal in hazardous environments.
- Proper fit contributes to product performance- a tight fit leads to thermal loss.
- Select an appropriate glove length for your application.
- Periodically inspect the condition of your gloves- replace gloves 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 users 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.

Care instructions: Store in a clean dry space.
Do not machine wash or dry.*

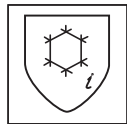


* Waterproof Cryo-Gloves® were not submitted for CE wash testing.

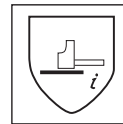
Disinfection: Waterproof Cryo-Gloves® can be sterilized by autoclave.

Packaging: Waterproof Cryo-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.

Waterproof Cryo-Gloves® satisfy all the basic health and safety requirements of the PPE Directive. 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.



Convective Cold ——— 3
Contact Cold ——— 2
Water Impermeability ——— 1



Abrasion Resistance ——— 1
Cut Resistance ——— 3
Tear Resistance ——— 2
Puncture Resistance ——— 3

Performance: EN 511	Level	Performance: EN 420	Level	Performance: EN 388	Level
Flexibility Behavior	Pass	pH.....	Pass	Abrasion Resistance	1
Water Impermeability	Pass	Sizing	8-9-10-11 *	Cut Resistance	3
Cold Resistance	Pass	Dexterity	1	Tear Resistance	2
Convective Cold	3			Puncture Resistance	3
Contact Cold	2	* Sizing conforms due to an expert decision			

Waterproof Cryo-Gloves® Available sizes and styles:							
Model Size: U.S. EN 420		Model Size: U.S. EN 420		Model Size: U.S. EN 420		Model Size: U.S. EN 420	
Wrist Length		Mid-Arm Length		Elbow Length		Shoulder Length	
WRSWP	S 8	MASWP	S 8	EBSWP	S 8	SHSWP	S 8
WRMWP	M 9	MALWP	M 9	EBMWP	M 9	SHMWP	M 9
WRLWP	L 10	MAMWP	L 10	EBLWP	L 10	SHLWP	L 10
WRXLWP	XL 11	MAXLWP	XL 11	EBXLWP	XL 11	SHXLWP	XL 11

Additional copies of this document can be obtained from Tempshield, Inc. P.O. Box 199 Mt. Desert, ME 04660 USA



EC type-examination was conducted by INSTITUT TEXTILE DE FRANCE
Avenue Guy de Collongue B.P. 60 69132 ECULLY CEDEX France Notified Body # 0072

EC DECLARATION OF CONFORMITY

We, Tempshield, Inc. PO Box 199, Mount Desert, Maine 04660 USA tel: 207-667-9696
declare that the new PPE described hereafter:

Cryo-Gloves®, Waterproof Cryo-Gloves®, Cryo-Industrial® Gloves
are in conformity with Council Directive 89 / 686 EEC and, where such is the case, with the national standards
transposing harmonized standard numbers:

EN 420 : 1994 General requirements for gloves
EN 511 : 1994 Protective gloves against cold
EN 388 : 1994 Protective gloves against mechanical risks

and Cryo-Apron®
is in conformity with Council Directive 89 / 686 EEC and, where such is the case, with the national standards
transposing harmonized standard numbers:

EN 340 : 1993 Protective clothing - general requirements
prEN 342 Protective clothing against cold

and are identical to the PPE which is the subject of the EC certificate of conformity number:

Cryo-Gloves®

WR+Size	0072/440/162/10/99/0156
EB+Size	0072/440/162/10/99/0156/EX01 10 99
GR+Size	0072/440/162/10/99/0156/EX02 10 99
GS+Size	0072/440/162/10/99/0156/EX03 10 99
MA+Size	0072/440/162/10/99/0156/EX04/10 99
SH+Size	0072/440/162/10/99/0156/EX05/10 99
GE+Size	0072/440/162/10/99/0156/EX06/10 99

Waterproof Cryo-Gloves®

WR+Size+WP	0072/440/162/10/99/0157
EB+Size+WP	0072/440/162/10/99/0157/EX01 10 99
MA+Size+WP	0072/440/162/10/99/0157/EX02 10 99
SH+Size+WP	0072/440/162/10/99/0157/EX03 10 99

Cryo-Industrial® Gloves

CIG+Size+WP	0072/440/162/10/99/0158
CIW+Size+WP	0072/440/162/10/99/0158/EX01 10 99
CIM+Size+WP	0072/440/162/10/99/0158/Revision 01

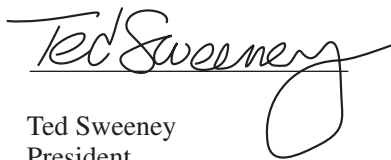
Cryo-Apron®

CA+Size	0072/440/162/10/99/0159
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issued by: INSTITUT TEXTILE DE FRANCE
Avenue Guy de Collongue
B.P. 60 69132 ECULLY CEDEX France Notified Body # 0072

The Technical Construction Files are maintained at Tempshield, Inc., PO Box 199, Mount Desert, Maine 04660 USA

Done at Mt. Desert, ME, on 10 / 28 / 99


Ted Sweeney
President

Rev. B (9/9/03)