

G014 - HYDRONIT Cold Protection Nitrile













Features



- New generation of soft shell gloves made of innovative COFRA-TEX membrane
- Unique glove of this kind thanks to thermo-regulating COFRA-TEX membrane
- New technology drawn from sports to PPE world
- Fabric made of 3 layers that ensure elasticity, water repellency and heat protection:
 - the softshell fabric grants flexibility
 - COFRA-TEX inner membrane makes the glove water repellent, windproof and breathable at the same time
 - the soft internal pile increases heat sensation
- Nitrile foam coating to grant oil protection and at the same time excellent flexibility and breathability
- Long neoprene cuff with velcro closure covering the entire sleeve to avoid the entrance of cold air and water
- Suitable for outdoor environments in windy and rainy
- Excellent for work environments with temperature up to
- COFRA-TEX membrane keeps internal microclimate which remains unchanged if there is wind (WIND CHILL) and humidity
- Membrane certified values, palm breathability: 3.0 mg/cm²h

Coating	Nitrile foam					
Fabric	Softshell wi	Softshell with COFRA-TEX membrane				
Cuff	Neoprene	Neoprene				
Colour	Turquoise/black					
Application	Airport workers, naval workers, building and construction, stock handling winter use, street cleaners					
Sizes	8 (M)	9 (L)	10 (XL)	11 (XXL)		
Longht	28,5 cm	29 cm	29,5 cm 30 cm			
Lenght	11,2"	11,4"	11,6"	11,8"		
	Coc	de	•			



SOFTSHELL WITH WINDPROOF COFRA-TEX MEMBRANE - BREATHABLE **NITRILE FOAM**





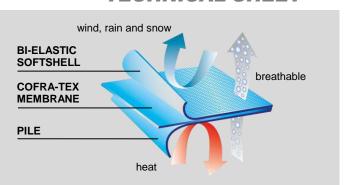
	Code	Quantity
Packaging	G014-D100	1 dozen (12 single packed gloves)
5 5	G014-K100	Carton containing 6 dozen (72 single packed gloves)



TECHNICAL SHEET



COFRA-TEX is a TPU membrane (Thermoplastic Polyurethane): elastic in 4 directions, super light, ultra thin, resistant to oil and grease, with great properties of breathability and water repellency. The gloves made of COFRA-TEX membrane have excellent mechanical properties. Laboratory tests proved good tear and traction resistance.

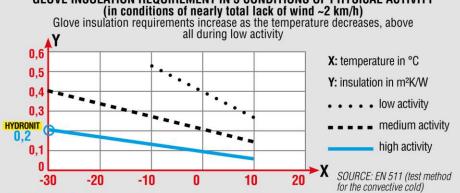


WIND CHILL is a parameter that allows measurement of the discomfort due to cold when this is worsen by wind effect. The wind significantly increases heat loss from our body, that exposed to harsh temperatures risks frostbité.

Here below a table showing the incidence in different extreme conditions and the temperature felt by the human body (WIND CHILL):

	10 Km/h	20 Km/h	30 Km/h	40 Km/h	50 Km/h
5°C	3	1	0	-1	-1
0 °C	-3	-5	-6	-7	-8
-5 °C	-9	-12	-13	-14	-15
-10 °C	-15	-18	-19	-21	-22
-15 °C	-21	-24	-26	-27	-29
-20 °C	-27	-30	-33	-34	-35
-25 °C	-33	-37	-39	-41	-42

GLOVE INSULATION REQUIREMENT IN 3 CONDITIONS OF PHYSICAL ACTIVITY



HYDRONIT:

- Index of thermal insulation from convective cold I_{TR}: 0,20 m²K/W
- Index of resistance to contact cold R: 0,076 m²K/W

HYDRONIT glove provides protection for high-activity works up to -30 °C, unlike the other gloves which, even with the same index but in presence of wind and more humidity, reduce considerably protection performances.

EVALUATION OF GLOVE AT SEVERE WORKING CONDITIONS AT -15 °C AND INDEX OF THERMAL INSULATION CAUSED BY CONVECTIVE COLD $I_{\rm TR}$: 0,20 m²K/W **EVALUATION EXTERNAL TEMPERATURE** WIND WIND-CHILL (perceivable temperature) Winter knitted gloves **HYDRONIT** -15 °C -15 °C **EXCELLENT** 2 Km/h **EXCELLENT** 10 Km/h -15 °C -21 °C **MEDIUM** EXCELLENT -15 °C -24 °C 20 Km/h **EXCELLENT** BAD -15 °C 30 Km/h -26 °C GOOD BAD In order to evaluate the glove it is necessary to take into consideration that also the relative air humidity.



SAFETY TECHNICAL SPECIFICATIONS

The PPE is in compliance with essential requirements of (EU) 2016/425 regulation

STANDARD	DESCRIPTION	MINIMUM REQUIREMENT / RANGE	RESULT REACHED
EN 420:2003 + A1 2009	pH determination	3,5 < pH < 9,5	7,05
EN 420:2003 + A1 2009	Chromium VI determination	≤ 10 mg/kg	NOT RECORDING
UNI EN 14362-1/3:2012	Carcinogenic and aromatic amines	≤ 30 ppm	NOT RECORDING
EN ISO 21420:2020	Further technical specifications applied	COMPLIANT / NOT COMPLIANT	COMPLIANT

STANDARD	DESCRIPTION				LEVEL			LEVEL
STANDARD	DESCRIPTION		1	2	3	4	5	REACHED
EN 388:2016+A1:2018	Abrasion resistance (number of frictions)		≥ 100	≥ 500	≥ 2000	≥ 8000	-	2
EN 388:2016+A1:2018	Cutting test : blade cut resistance (index)		≥ 1,2	≥ 2,5	≥ 5,0	≥ 10,0	≥ 20,0	1
EN 388:2016+A1:2018	Tear resistance (N)		≥ 10	≥ 25	≥ 50	≥ 75	-	4
EN 388:2016+A1:2018	Puncture resistance (N)		≥ 20	≥ 60	≥ 100	≥ 150	-	2
EN 388:2016+A1:2018 - EN ISO 13997	TDM : cutting resistance (N)	Α	В	С	D	Е	F	х
		≥ 2	≥ 5	≥ 10	≥ 15	≥ 22	≥ 30	^
EN 200-2040 - A4-2040 - EN 42504-2045	langest protection		P		ABSENT			ABSENT
EN 388:2016+A1:2018 - EN 13594:2015	Impact protection		Achieved Test not exec		uted	ADSENI		

If one of the marking indexes is marked with:

- letter "X" means that the test wasn't executed or not applicable;
- number "0" means that the test was executed but the minimum performance level hasn't been achieved

STANDARD	DESCRIPTION		LEVEL				LEVEL
STANDARD			1	2	3	4	REACHED
EN 511:2006	Convective cold	Thermal insulation value I _{TR} (m² K/W)	0,10≤ I _{TR} <0,15	0,15≤ I _{TR} <0,22	0,22≤ I _{TR} <0,30	0,30 ≤ I _{TR}	2
EN 511:2006 - ISO 5085-1	Cold contact	Thermal resistance R (m² K/W)	0,025≤ R <0,050	0,050≤ R <0,100	0,100≤ R <0,150	0,150 ≤ R	2
EN 511:2006 - ISO 15383	Water resistance	e *	1 Achieved		0 Not achieved		1

^{*} The performance level 1 indicates that no water transit occurred at the end of the trial period. When this requirement is not fulfilled, it is indicated with performance level 0 and the gloves if they are wet can lose their insulating capacities.

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