

# G114 - TUNDRA

## Cold Protection Pvc



EN 388:2016  
+A1:2018



2142X

EN 511:2006



12X



DEXTERITY



3M THINSULATE™  
Insulation

100g

### Features

- Specific glove for cold storage
- Perfect for outdoor environments and protection against bad weather such as snow, wind, humidity and cold
- Water and wind resistant fabric
- PVC palm with anti-slip finishing, suitable for dry and wet conditions. The material guarantees flexibility and excellent breaking strength even with low temperature
- Padding entirely made of 3M™ THINSULATE™ Insulation (Extra Warmth superior quality, 100 g/m<sup>2</sup>). Thanks to the reduced thickness, it guarantees the best thermal insulation and a complete ease of movement
- Extra-long knit-wrist cuff, which avoids the entrance of cold air\*
- Gloves in compliance with EC Regulation no. 1935/2004 ("Materials and items intended to come into contact with food") and with the more specific EU Regulation no. 10/2011 ("Plastic materials and articles intended to come into contact with food"), to guarantee safety of materials used and protection against migrations of substances on food\*\*
- All components of the glove are in compliance with REACH regulations
- Washable (test carried out in COFRA's laboratories\*\*\*)

<b>Palm</b>	PVC
<b>Back</b>	Polyester fabric
<b>Lining</b>	Polyester
<b>Padding</b>	3M™ THINSULATE™ Insulation (100 g/m <sup>2</sup> )
<b>Cuff</b>	Polyester
<b>Colour</b>	Navy/black

<b>Application</b>	Cold storage, handling of fish, fruit and vegetables, material handling in the warehouse, outdoor shipping and receiving in wintertime, outdoor works with snow and bad weather
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<b>Sizes</b>	7 (S)	8 (M)	9 (L)	10 (XL)	11 (XXL)
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<b>Lenght</b>	28 cm	28,5 cm	29 cm	29,5 cm	30 cm
	11"	11,2"	11,4"	11,6"	11,8"

Packaging	Code		Quantity	
	G114-D100		1 dozen (12 single packed gloves)	
	G114-K100		Carton containing 6 dozen (72 single packed gloves)	



**RECOMMENDED FOR WORK  
ENVIRONMENTS WITH TEMPERATURE  
UP TO -30 °C, EVEN IN THE PRESENCE  
OF BAD WEATHER AND PROLONGED  
USE**



**WATER  
RESISTANT**

**EXCELLENT FOR  
WORKS AT LOW  
TEMPERATURES**



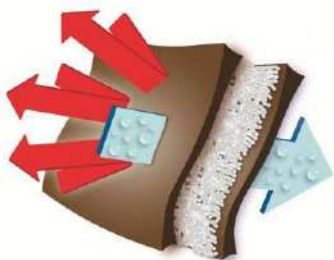
\* The whole glove was designed with the aid of thermographic instruments which allowed minimising the thermal dispersions of the internal microclimate.

\*\* The tests (performed in SATRA laboratories, UK) guarantee the use of gloves for direct contact with several types of food, including the fishing, fruit and vegetables industries (for further information check the Declaration of Conformity).

\*\*\*Tested with 5 washing cycles according to ISO 6330 standard.



TUNDRA glove is lined with 100% 3M™ THINSULATE™ Insulation. Twice as warm as the normal padding of the same weight, highly breathable, it does not absorb humidity, the thermal insulation remains constant even in case of compression and repeated washings. Thanks to its thickness, it provides an excellent freedom of movement.



- ✓ It greatly keeps warmth
- ✓ Extremely durable
- ✓ Effective even if wet

## 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 (palm)	3,5 < pH < 9,5	<b>6,95</b>
EN 420:2003 + A1 2009	pH determination (back)	3,5 < pH < 9,5	<b>7,10</b>
EN 420:2003 + A1 2009	pH determination (lining)	3,5 < pH < 9,5	<b>7,05</b>
EN 420:2003 + A1 2009	Chromium VI determination	≤ 10 mg/kg	<b>NOT RECORDING</b>
UNI EN 14362-1/3:2012	Carcinogenic and aromatic amines	≤ 30 ppm	<b>NOT RECORDING</b>
EN ISO 21420:2020	Further technical specifications applied	COMPLIANT / NOT COMPLIANT	<b>COMPLIANT</b>

STANDARD	DESCRIPTION		LEVEL					LEVEL REACHED
			1	2	3	4	5	
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)	A	B	C	D	E	F	X
		≥ 2	≥ 5	≥ 10	≥ 15	≥ 22	≥ 30	
EN 388:2016+A1:2018 - EN 13594:2015	Impact protection	P			ABSENT			ABSENT
		Achieved			Test not executed			

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 REACHED
		1	2	3	4	
EN 511:2006 (par. 4.5)	Convective cold Thermal insulation value $I_{TR}$ (m² K/W)	$0,10 \leq I_{TR} < 0,15$	$0,15 \leq I_{TR} < 0,22$	$0,22 \leq I_{TR} < 0,30$	$0,30 \leq I_{TR}$	<b>1</b>
EN 511:2006 (par. 4.6) - ISO 5085-1	Cold contact Thermal resistance $R$ (m² K/W)	$0,025 \leq R < 0,050$	$0,050 \leq R < 0,100$	$0,100 \leq R < 0,150$	$0,150 \leq R$	<b>2</b>
EN 511:2006 (par. 4.3) - ISO 15383	Water resistance *	<b>1</b> Achieved		<b>0</b> Not achieved		<b>x</b>

\* 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.

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	SIMULANT		MINIMUM REQUIREMENT	RESULT REACHED
Regulation 10/2011 Plastic materials and items intended to come in contact with food EN 1186-3:2002 Materials and articles in contact with foodstuffs - Plastics - Test methods for overall migration into aqueous food simulants by total immersion Global migration, 10 dd / 20° C	Palm	10% Ethanol	< 10 mg/dm²	<b>5,3 mg/dm²</b>
		20% Ethanol	< 10 mg/dm²	<b>3,7 mg/dm²</b>
	Back	10% Ethanol	< 10 mg/dm²	<b>6,5 mg/dm²</b>
		3% Acetic Acid	< 10 mg/dm²	<b>5,0 mg/dm²</b>
		20% Ethanol	< 10 mg/dm²	<b>5,8 mg/dm²</b>
		50% Ethanol	< 10 mg/dm²	<b>9,5 mg/dm²</b>

STANDARD/ DESCRIPTION	SIMULANT		ELEMENT (mg/Kg of foodstuffs)							MINIMUM REQUIREMENT
			Ba	Co	Cu	Fe	Li	Mn	Zn	
Regulation 10/2011 Plastic materials and items intended to come in contact with food EN 1186-3:2002 Extractable metals analysis on food simulant extracts by ICP-OES	Palm	10% Ethanol	<b>1</b>	<b>0,05</b>	<b>5</b>	<b>48</b>	<b>0,6</b>	<b>0,6</b>	<b>25</b>	RESULT REACHED
		3% Acetic Acid	/	<0,05	<0,05	<1	<0,1	<0,1	7,1	
		20% Ethanol	0,7	<0,05	<0,05	<1	<0,1	<0,1	<1	
		50% Ethanol	<1	<0,05	<0,05	<1	<0,1	<0,1	<1	
	Back	10% Ethanol	<0,1	<0,05	<0,05	<1	<0,1	<0,1	<1	RESULT REACHED
		3% Acetic Acid	<0,1	<0,05	<0,05	<1	<0,1	<0,1	<1	
		20% Ethanol	<0,1	<0,05	<0,05	<1	<0,1	<0,1	<1	
		50% Ethanol	<0,1	<0,05	<0,05	<1	<0,1	<0,1	<1	