



PROTECTION
AGAINST
INTENSE COLD



Area of use*



FOOD PROCESSING



PUBLIC WORKS



BUILDING

Technical features

High visibility bib pant

Outside material: 100% polyester (Oxford 300D) coated with acrylic, 150 gsm.

Lining: 100% taffeta polyester, 55 gsm.

Padding: 100% polyester, 300 gsm.

4 outer pockets. Fly with zipper and button.

Reinforced knee pad pockets.

Elasticated waist. Retro-reflective tapes.

Colour: yellow and navy blue.

Sizes: 01 (S/M), 03 (L/XL), 05 (2XL/3XL), 07 (4XL/5XL).

Packaging: carton of 6 pieces.

Subpackaging: individual polybag.



Advantages

Protection against intense cold (505 g/m²)

Resistant and light thanks to the outside material (300D Oxford polyester coated with PU).

Better visibility thanks to retro-reflective tapes.

Quality and safety of materials with OEKO-TEX® certification.

Functional and practical thanks to various outer pockets.

Reinforced knee pad pockets.



Certification

This product complies with **European Regulation (EU) 2016/425** on Personal Protective Equipment (**PPE**). **Category II**.

Issued by **AITEX**, notified body n°**0161**.

EN ISO 20471: 2013 + A1: 2016

EN 342 : 2017

EN ISO 13688 : 2013



2



0,499

2

X


Low activity				Moderate activity			
Light wind		Moderate wind		Light wind		Moderate wind	
8h	1h	8h	1h	8h	1h	8h	1h
-20°C	-41°C	-8°C	-26°C	-44°C	-65°C	-27°C	-47°C

For example, the green box means that the user, wearing the COTFRA/PARFRA outfit, carrying out a moderate activity (i.e. who is not stationary, who moves, carries, walks, etc.), can be exposed to a temperature of -47°C for 1 hour with moderate wind without fear for one's health, that is to say without a significant drop in the temperature inside the garment.



Download the EU declaration of conformity on <http://docs.singer.fr>


EN 342 - AGAINST COLD ENVIRONMENTS

	A	Thermal resistance (m ² .KW).
	B	Air permeability. Class 1 to 3 (3 being the best).
	C	Resistance to water penetration. Optional test.

EN 343 - AGAINST BAD WEATHER

	A	Resistance to water penetration. Class 1 to 4 (class 4 being the best).
	B	Evaporative resistance. Class 1 to 4 (class 4 being the best).
	R	Controlled under a rain simulator (optional). Class R.

EN ISO 11611 - WELDING AND ALLIED PROCESSES


	Class 1	Against minor risks: Less projections and a weak radiant heat.
	Class 2	Against important risks: More projections and a more important radiant heat.
	A1 or A2	Test method used for spreading of the flame, in conformity with the standard ISO 15024/2000.

EN ISO 11612 - PROTECTION AGAINST HEAT AND FLAME

	A1 and/or A2	Limited flame spread.
	B1 to B3	Convective heat.
	C1 to C4	Radiant heat.
	D1 to D3	Molten aluminium splash.
	E1 to E3	Molten iron splash.
	F1 to F3	Contact heat.

This standard imposes a number of requirements in terms of product design (for example: the flap of the outer pockets must be larger than the pocket ...). Each garment must bear the code letters A1 and / or A2 plus at least another code letter.

EN ISO 14116 - LIMITED FLAME SPREAD


	A	Index 1	Limited flame spread / Absence of burning debris / Residual glow.
		Index 2	Limited flame spread / Absence of burning debris / Residual glow / No hole formations.
		Index 3	Limited flame spread / Absence of burning debris / Residual glow / No hole formations / Limited persistence of flame.
	B	-	Number of washes.
	C	H	Home washing.
		I	Industrial washing.
		C	Chemical washing.
	D	-	Washing temperature.

If the materials can not be washed: BC/D = 0/0. The pictogram (see above) can be used only if the product has been tested to another standard of flame protection.

EN 1149-5 - ELECTROSTATIC PROPERTIES


	Electrostatic properties, part 5. Material performance and design requirements.
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EN ISO 20471 - HIGH VISIBILITY


	Class 1	Background material: > 0,14 m ² . Retro-reflective material: > 0,10 m ² . Combined performance material: > 0,20 m ² .
	Class 2	Background material: > 0,50 m ² . Retro-reflective material: > 0,13 m ² . Combined performance material: - m ² .
	Class 3	Background material: > 0,80 m ² . Retro-reflective material: > 0,20 m ² . Combined performance material: - m ² .

The coefficient of retro-reflection of the retro-reflective material must be class 2 to comply with EN ISO 20471 (class 1 of previous EN 471 standard has been cancelled).
«X» indicates the class of the garment according to the compulsory minimum area.

EN 14404 - KNEE PROTECTION

	Type 1	Protective portable knee pads.
	Type 2	Knee pads associated with clothing.
	Type 3	Carpet for knees.
	Type 4	Kneeling systems.
	Level 0	Flat floors, no resistance to penetration required.
	Level 1	Flat floors, resistance to penetration of 100N.
	Level 2	Flat or irregular surfaces, resistance to penetration of 100N.
Level 3	Flat or irregular surfaces under difficult conditions, resistance to penetration of 250N.	

EN 61482 - THERMAL HAZARDS OF AN ELECTRICAL ARC


	APC 1	Tested with an electrical arc of 4 000 amperes
	APC 2	Tested with an electrical arc of 7 000 amperes

Also, for each class, are checked: - Absence of flame spread.
- Absence of heat transfer that can burn the user to the 2nd degree.
- Proper functioning of the EPI closure systems after the tests.


EN 943, EN 14605, EN ISO 13982, EN 13034 AGAINST CHEMICALS

	Type 1	Gaz tight.
	Type 2	Non gaz tight.
	Type 3	Liquid-tight connections.
	Type 4	Spray-tight connections.
	Type 5	Protection to the full body against airborne solid particulates.
	Type 6	Limited protection against liquid chemicals.

EN 14126 - AGAINST INFECTIVE AGENTS

	Performance requirements and tests methods for protective clothing against infective agents.
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EN 1073-2 - AGAINST RADIOACTIVE CONTAMINATION

	Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination.
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"X" means that the glove has not been submitted to the test.