GoodPRO®
good protection

Instructions for use

antistatic protective garment against heat risks and liquid chemicals

GoodPRO SF1 Oliver

PPE - category III

Manufacturer: Good**PRO**, s.r.o., Dukelska 1247, 334 01 Prestice, Czech republic, www.goodpro.cz

Material: 65% Lenzing FR, 22% aramid, 12% polyamid, 1% Belltron, weight 250 g/m²

Description:
The garment is made of the fabric with Lenzing FR® fibres, and provides not only protection, but also excellent comfort thanks to its extraordinary thermoregulation properties. The fabric contains conductive fibres which safely take away static electricity. The fabric also protects against the negative effects of the exposure to arc flash and ensures a limited protection against liquid chemicals.

EN ISO 11612:
In contact with flame or small burning particles the material becomes carbonized, but the fire does not spread – it therefore prevents injuries caused by burning clothes. In case of any accidental splashes by liquid chemicals and/or flammable liquids, the wearer must retreat immediately and take off the garment carefully. Avoid any contact with skin. The contaminated garment must be cleaned or discarded.

EN ISO 11611:
This protective garment is in compliance with Standard EN 11611, class 1. It ensures protection against welding hazards and similar related processes. This type of protective clothing is intended to protect the wearer against fire, radiant heat, molten-metal splashes, short contact time with flame, radiant heat from the arc, and minimizes the possibility of electrical shock by short-term, accidental contact with live electrical conductors at voltages up to approximately 100 V d.c. in normal conditions of welding. Sweat, soiling or other contaminants can affect the level of protection provided against short-term accidental contact with live electric conductors at these voltages. The contamination by flammable substances can lead to the degradation of the level of flame resistance. The protective garment of class 1 can be used for flame welding, WIG (Wolfram-Inert-Gas) and MIG (Metal-Inert-Gas) welding, plasma arc welding and spot welding, brazing and MMA (Manual-Metal-Arc) welding as well as for oxygen torch cutting, plasma torch cutting and the use of resistance welding machines. The protective garment, class 2, can be used for MIG welding, MAG and MMA welding, oxygen torch cutting, plasma torch cutting, metallization as well as welding in confined spaces or above the head. The protective garment should be regularly checked. Any damage caused by intensive UV radiation, radiant heat, flying sparks or molten-metal droplets can lead to the degradation of the protective features of the garment. For further information, please, check standard EN ISO 11611, Annex A, B.

EN 1149-5:
This protective garment conforms to the requirements of standard EN 1149-5 and is designed to prevent incendiary discharges. The garment can be used on the premises with flammable atmosphere only in compliance with the valid standards and regulations governing the protection against static electricity. The wearer dressed in electrostatic dissipative protection garment must be well-grounded through a resistance lower than 10^8 Ω we also recommend to wear suitable footwear. Electrostatic dissipative protection garment must be well-fastened, do not take it off in the close proximity of flammable or explosive atmospheres or when handling flammable or explosive substances. Electrostatic dissipative protection garment must not be used in oxygen enriched flammable atmosphere without the prior approval of the responsible safety officer. The excessive wear and use, damage, laundering or possible contamination can influence the antistatic properties of the garment. When used, electrostatic dissipative protective clothing should permanently cover all non-complying materials during normal use (including bending and movements).

EN 13034:
This garment has a special FC treatment, which provides a limited protection against liquid chemicals. FC treatment must be repeated after 20 wash cycles – use the waterproofing agent HYDROB FC (see the instructions). The design of the personal protective clothing with limited protective performance against liquid chemicals covers the lowest level of chemical protection – it protects against potential exposure to small quantities of spray, liquid aerosols or low pressure or low volume splashes against which a complete liquid permeation barrier (at a molecular level) is not required. The garment is designed to protect against chemicals, type 6. It has been tested as a set.

EN 61482-1-1:
This personal protective garment is in compliance with standard EN 61482-1-1, which specifies the test method for measuring the thermal resistance of suits against the thermal hazards of an electric arc. Determination of the arc rating (ATPV)

EN 61482-1-2:
This personal protective garment is in compliance with standard EN 61482-1-2, class 1. It should minimise the negative effects of the exposure to arc flash.

Use:
Mainly in petrochemical industry, energetics, gas industry, refineries and ADR. As well as in flammable or explosive atmospheres (caused by incendiary discharge). The garment is also suitable for welding and other related processes.

Caution:
To ensure the greatest possible protection and maintain its protective properties, the personal protective garment must be worn in compliance with the manufacturer´s instructions, must be always well-fastened (all zippers and Velcro closures) and complete.

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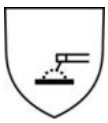
Tests:

EN ISO 11612:2008 A1 B1 C1 F1	**Test according EN ISO 11612:2008**	**Requirements**	**Evaluation**
	Heat resistance - 180 °C	ISO 17493	met
	Limited flame spread	EN ISO 15025 , method A	A1
	Convection heat	HTI_{24} 4 – 10 s	B1
	Radiant heat	$RHTI_{24}$ 7 – 20 s	C1
	Contact heat – heat resistance 250 °C	5 – 10 s	F1
EN 1149-5:2008	**Test according EN 1149-5:2008**	**Requirements**	**Evaluation**
	Method 2 – Half decay time	$T_{50} < 4$, $S > 0,2$	met
IEC 61482-2:2009	**Test according IEC 61482-2:2009**	**Requirements**	**Evaluation**
	Electric arc – value ATPV	Min. 4 cal/cm^2	27 cal/cm^2
	Test according EN 61482-1-2	**Requirements**	**Evaluation**
	short-circuit current	4 kA	class 1
EN 13034+A1:2009	**Test according EN 13034+A1:2009**	**Requirements**	**Evaluation**
	Resistence against repellency H_2SO_4 30% NaOH 10%	R > 95 %	class 3
	Resistance against penetration H_2SO_4 30% NaOH 10%	P < 1 %	class 3
 **EN ISO 11611:2008 class 1**	**Test according EN ISO 11611:2008**	**Requirements**	**Evaluation**
	Limited flame spread	EN ISO 15025 , method A	A1
	Small hot metal drops	15 drops / 40 K	met
	Radiant heat	$RHTI_{24}$ > 7 s	met
	Vertical resistance	> 10^5 Ω	met

Maintenance:

Before washing zip up the garment, fasten all Velcro fasteners and take off the suspenders. We recommend washing at 40°C with gentle machine wash, light spin, pH max.9. Use ordinary liquid detergents without any bleaching agents. Prewash excessively soiled garments. Rinse thoroughly and tumble dry at max spin speed 800 rpm. We recommend free drying in a warm room or drying in a dryer in 2 cycles (max 2x20min) at a lower temperature -max 60°C. Re-impregnate aftrer 20 washing cycles according to the instructions. Do not iron directly onto reflective tapes. HIGHER WASHING AND DRYING TEMPERATURES CAUSE FASTER WEAR OUT OF THE GARMENT!

Storage:

Store in dry and well-ventilated areas away from direct sunlight and UV rays. Protect from any damage.

Notes:

Keep the garment clean otherwise it can lead to the degradation of its properties. Check after every use.
To ensure the greatest possible protection do not make any alternations to the garment and/or its design. The garment keeps its protective features only in the environment with standard volume of oxygen. To maintain the required level of protection, every two-part suits must be worn complete. To achieve maximum protective performance, it is necessary to wear the vest together with the flame retardant garment which fully covers arms. Check and maintain the garment regularly, including FC treatment. Manufacturer does not warrant nor shall manufacturer be liable, or in any way responsible, for damages to a product caused by abuse (including, but not limited to, improper use, lack of reasonable care and maintenance and/or any alteration). In case of any questions, please contact the manufacturer.

You will find a Declaration of Conformity at www.goodpro.cz

Notified Body 1023 performed EU Type-Examination of the suit **SF1 Oliver.**