

User Manual for Trousers, Models 1 and 2

CE:0598

Standard: EN ISO 13688:2013 + A1:2021 and EN ISO 11612:2015

Other information: EN ISO 11612: A1+A2 B1 C2 D3 E3 F1

- Bukse Modell 1



- Bukse Modell 2



SGS Fimko Ltd, Notified Body No. 0598, has carried out the EU type-examination of our personal protective equipment products in accordance with PPE Regulation (EU) 2016/425 and is responsible for annual quality assurance, Module C2.

EU Declaration of Conformity

1. Product model:

Jacket Model 1, Jacket Model 1b, Jacket Model 1c,
Trousers Model 1, Trousers Model 2

2. Industriskinn AS,

Vestsidevegen 71
N-2420 Trysil.
Norway

3. This declaration of conformity is issued under the sole responsibility of the manufacturer.

4. Object of the declaration (identification of the product):

Protective clothing against heat and flame

5. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

PPE Regulation (EU) 2016/425

6. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:

EN ISO 11612: A1+A2 B1 C2 D3 E3 F1

7. The notified body SGS Fimko Ltd, 0598, Takomotie 8, FI-00380 Helsinki, performed the EU type-examination (Module B) and issued the EU type-examination certificate 2016/425, MODULE B 0598/PPE/24/2208 Issue 1

8. PPE is subject to the conformity assessment procedure C2 under surveillance of the notified body SGS Fimko Ltd, 0598.

9. Signed for and on behalf of:

Trysil, 25.03.2024

Ingrid Melby
Daglig leder
Industriskinn AS



EU TYPE-EXAMINATION CERTIFICATE Regulation (EU) 2016/425, MODULE B 0598/PPE/24/2208 Issue 1

Product	Protective clothing against heat and flame
Model	Jacket Model 1, Jacket Model 1b, Jacket Model 1c, Trousers Model 1, Trousers Model 2
Trademark	-
Certificate Holder / Manufacturer	Industriskinn AS Vestsidevegen 71, 2420 Trysil, Norway
Standard(s)	Products comply with the applicable essential health and safety requirements of Regulation (EU) 2016/425 and standard(s) mentioned below EN ISO 13688:2013+A1:2021 and EN ISO 11612:2015
Other Information	EN ISO 11612: A1+A2 B1 C2 D3 E3 F1 This certificate shall be used in conjunction with conformity assessment procedure module C2 or D.
Validity	This certificate is valid until 2029-03-07.
Date of issue	2024-03-07
Signature	SGS Fimko Ltd  Hanna Koskinen Team Leader

SGS Fimko Ltd is a Notified Body (0598) according to the Personal Protective Equipment Regulation (EU)

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SGS Fimko Ltd

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Business ID 0978538-5

Member of the SGS Group (SGS SA)



EN ISO 11612

A1+A2 | B1 | C2 | D3 | E3 | F1

EN 11612

EN

Protective clothing marked with **EN ISO 11612** has been tested and certified to provide protection against heat and flames.

- **Explanation of symbols and letters:**
- **A – Limited flame spread**
- **A1:** Surface ignition
- **A2:** Edge ignition
Indicates that the material does not continue to burn after the flame source has been removed.
- **B – Convective heat**
Protection against heat transferred by hot air or gases.
- **C – Radiant heat**
Protection against heat radiated from hot surfaces, melting furnaces, or molten metal.
- **D – Molten aluminum (splash)**
Protection against splashes of molten aluminum.
- **E – Molten iron (splash)**
Protection against splashes of molten iron.
- **F – Contact heat**
Protection against short-term contact with hot surfaces.
- **Performance levels:**
The numbers following the letters (e.g. B1, C2, D3) indicate the level of protection, where higher numbers mean higher protection. The levels for which the product is certified are stated on the garment label.
- **Important note:**
The protective clothing only provides protection within the classes and levels indicated on the product label. Risk must always be assessed in accordance with the work operation and local HSE (health, safety, and environment) requirements.

Important! Read these instructions carefully before use!

1. Purpose and area of use:

This product is personal protective equipment (PPE) developed for use in silicon smelting plants and other industrial environments with a risk of exposure to heat, flames, molten metal, and radiant heat.

The product is certified in accordance with **EN ISO 11612** and shall be used as part of approved protective clothing in line with the company's HSE procedures.

2. Protective properties:

The product provides protection against: Short-term exposure to flames, Convective heat, Radiant heat, Metal splashes (in accordance with the relevant class in EN ISO 11612)

- **Note:**

The protective clothing does not provide protection against chemicals, electric arc hazards (unless specifically stated), or mechanical hazards such as cuts and impacts.

3. Correct use

To ensure optimal protection, the following must always be observed:

- The trousers must be the correct size so that they cover the entire leg without gaps.
- The trousers must be worn closed and properly fastened (buttons, zipper, belt/waistband).
- The trouser legs must cover the footwear and must not be tucked into boots, unless otherwise risk-assessed and approved.
- The protective trousers must always be worn together with other required protective equipment, such as:
Flame-retardant underwear/base or mid-layers, Flame-retardant jacket, Safety footwear, Gloves, Helmet and face protection

4. Limitations of use

- The product must not be used if it is damaged, heavily worn, or contaminated with flammable substances (oil, grease, chemicals).
- The product must not be modified, cut, altered, or otherwise changed unless this is described in the manual.
- Do not use the protective clothing over or together with underwear or mid-layers that are not flame-retardant, as this may reduce protection.

5. Inspection before use

Before each use, the user shall check:

- That there are no holes, tears, or excessive wear
- That seams and closures are intact
- That there are no residues of molten metal, oil, or other flammable materials
- Damaged protective clothing must be taken out of service and replaced.

6. Maintenance and washing

- Follow the care instructions stated on the garment.
- Use only recommended detergents; do not use bleach or fabric softener.
- Tumble drying only in accordance with the manufacturer's instructions.
- Incorrect washing or maintenance may reduce the flame-retardant properties!

7. Storage

- Store in a dry, clean place, protected from direct sunlight.
- The protective clothing must not be stored together with chemicals, oil, or other contaminating substances.

8. Disposal

- When the protective clothing no longer provides sufficient protection, it shall be disposed of in accordance with the company's procedures for waste and textiles

Washing instructions:

CE 0598 EN ISO 11612:2015

Wash at 30 degrees with equal parts detergent and leather fat. After washing give the garment a short tumble at 30 degrees and hang to dry. When the garment is completely dry, tumble once more to soften. Note: Wash separately.

Protective clothing for industrial workers exposed to heat.
Used with our models:
Smeltery and foundry jacket model 1, 1a, 1b, 1c
Smeltery and foundry trousers model 1, 2

Material:
Textile: Woven fabric (double faced) /57% ViscoseFR/15% PA/14% AR/13% WO/ 1% Antistatic
Leather: 100% FR Split
Spacer 100% Meta aramid/Peek
Reflex: Aramidbased fluorescent lime-silver-lime reflective tape

INDUSTRISKINN AS - Vestsidvegen 71, 2420 Trysil, Norway
E-mail: ordre@industriskinn.no

- Wash at **30°C**, using equal parts **Oldopal Basic** (detergent) and **Lival Licker Konz** (leather dressing).
- After washing, tumble dry briefly at **30°C**, then hang to dry.
- When the garment is completely dry, tumble dry once more to soften.

Note: Our workwear has been tested and is guaranteed for **3 washing cycles** only. Beyond this, we cannot guarantee that the product provides the required level of protection.

-  Extra gentle machine wash – max. 30°C
-  Do not bleach
-  Tumble dry – max. 40°C
-  Iron at max. 150°C
-  Dry clean – all solvents allowed

Trousers, model 2

Option for belt and suspenders

Side pockets

Flame-retardant fabric, at the front and back

Articulated knees with overlapping seams

Flame-retardant split up to the thigh



Leather over-cover for shoe protection



Leather reinforcement at the back



Reflective detail on the back

Trousers, model 1 og 2

Both trouser models have a protective flap at the front to protect shoes and laces. The flaps can be trimmed to fit the shoe



Attach the trouser suspenders to the belt loops for maximum support



Contact information

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