

Please make the changes as indicated

IS 16890 : 2024

8.3.2 Instructions and Information

Protective clothing manufacturers shall also provide the following instructions and information with each garment:

- a) Cleaning and instructions;
- b) Maintenance criteria;
- c) Methods of repair; and
- d) e) Warranty information.

8.3.3 Training Materials

Protective clothing manufacturers shall furnish training materials that address, but are not limited to:

- a) Safety considerations;

- b) Storage conditions;
- c) De-contamination procedures; and
- d) Retirement considerations.

8.4 BIS Certification Marking

The protective clothing may also be marked with the Standard Mark.

8.4.1 The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed there under, and the products may be marked with the Standard Mark.

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- e) O-xylene, 100 percent

NOTE — Fabrics shall be conditioned for 24 h at (20 ± 2) °C and (65 ± 5) percent RH before testing. All tests shall be carried out with a pouring time of 10 s and at a temperature of 20 °C.

7.12 Water-penetration Resistance

Specimens of clothing assembly and its seams, when tested in accordance with ISO 811 at 20 kPa for a period of 5 min, shall not show appearance of water drops. This requirement is applicable for both Category 1 and Category 2 of protective clothing.

7.13 Water-vapour Resistance

Specimens of clothing assembly and its seams, when tested in accordance with ISO 11092 shall have maximum water vapour resistance of 30 m² Pa/W. This requirement is applicable for both Category 1 and Category 2 of protective clothing.

NOTE — High water vapour resistance can lead to a higher risk of steam burns.

8 MARKING

8.1 Label

Each separable layer of each protective garment shall have a label permanently and conspicuously attached to each layer upon which at least the information given in Fig. 1 is printed in letters at least 1.5 mm high. At least one label shall be conspicuously located inside the garment in all possible configurations of garment utilization.

8.2 Label Legibility

All garment labels shall be clearly legible to the eye both before and after being subjected to the pre-treatment specified in 6.4. Garment labels not meeting specimen size requirements for the procedure specified in 6.4 shall be sewn to a support fabric of required size.

8.3 Manufacturers Information

8.3.1 The Manufacturer's Information shall contain the following

- a) Name, address and contact details of the manufacturer;
- b) Model name and article number of the protective clothing which has been certified to this standard;
- c) Indian Standard to which certified along with pictogram as given in Fig. 2;
- d) Size information of the manufacturer for this protective clothing, that is, S – XXXL;
- e) Care labeling symbols as specified in IS 14452; and
- f) Declaration:
 - 1) The manufacturer shall include a note in the information that in order to comply with the requirements of this standard, the upper and lower body including the neck, arms to the wrists and legs to the ankles, are protected and covered by the clothing described in this standard, but other parts of the body are not and need essential means in order to be fully protected;
 - 2) These protective clothing has been designed to give a specified level of protection for use in firefighting operations and associated activities, in conjunction with other accessories like protective helmet, protective fire fighting boot, protective hood and fire fighting protective gloves; and
 - 3) These protective clothing is not designed for use as fire entry suit.