

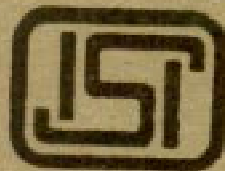
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GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR BODY PROTECTION

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Indian Standard

GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR BODY PROTECTION

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(Continued on page 2)

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(Continued on page 6)

Indian Standard

GUIDE FOR SELECTION OF INDUSTRIAL SAFETY EQUIPMENT FOR BODY PROTECTION

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 14 March 1977, after the draft finalized by the Industrial Safety Advisory Committee had been approved by the Executive Committee.

0.2 This standard is intended to guide workers and those in charge of their safety in industrial operations in selecting such protective equipment for the body as will give the required protection against hazards likely to be encountered.

0.3 Indian Standards published on protection of body equipment are given in Appendix A.

1. SCOPE

1.1 This standard describes hazards which call for the use of safety equipment for protection of the whole body and provides guidance on the protection afforded against specific hazards by different types of protective equipment.

2. CLASSIFICATION OF HAZARDS RELATED TO BODY PROTECTION EQUIPMENT

2.1 Hazards against which body protection equipment should be used are given below:

<i>Code No.</i>	<i>Protection Against Hazard of Hazard</i>	<i>Typical Industrial Operations</i>
H-1	Sustained radiant heat	Glass furnaces, forgings, hearths, pit and salt bath furnace, etc
H-2	Flame	Flame proximity and flame entry

<i>Code No. of Hazard</i>	<i>Protection Against Hazard</i>	<i>Typical Industrial Operations</i>
H-3	Hot metal splash and sparks	Foundry, forging and welding, heat treatment and die casting
H-4	Electric current	Work on live conductors
H-5	Water splashes	Dairies and laundries
H-6	Mild acids and alkalis	Pickling and degreasing
H-7	Strong acids and alkalis	Handling and manufacturing chemicals
H-8	Organic solvents, oils	Handling petroleum products
H-9	Flying chips, rough objects, mild impacts	Grinding, woodworking and shot-blasting
H-10	Severe blows and sharp tools	Saw operations, grinders and butchers
H-11	X-rays and gamma rays	X-ray technicians and laboratory workers

3. TYPES OF BODY PROTECTION EQUIPMENT

3.1 The types of body protection equipment are given below:

3.1.1 *Apron:*

3.1.1.1 *Bib type* — covering chest, waist and legs down to the knees or sometimes to ankles.

3.1.1.2 *Waist type* — covering waist and legs down to the knees or below.

3.1.1.3 *Split type* — divided at the crotch and fastened around each leg.

3.1.2 *Cape Sleeve* — Back, shoulder and arm covering which extends over the upper chest. They can also be worn over aprons.

3.1.3 *Over All* — One piece apparel combining pull-on pants with upper portion covering body and the hands partly or wholly.

3.1.4 *Jacket* — Covering upper body from shoulders to hips.

3.1.5 *Coat* — Extending either to knee or ankle to give body and leg protection.

3.1.6 *Suit* — Covering from head to foot, for complete protection, and normally used with respiratory provision.

4. SELECTION OF EQUIPMENT FOR DIFFERENT HAZARDS

4.1 It is necessary that in selecting body protection equipment, it should

be borne in mind that the material of which the equipment is made will give protection only against hazards given below:

<i>Sl No.</i>	<i>Material of Construction of the Protective Equipment</i>	<i>Recommended for Use Against Hazard Code No. (see 2.1)</i>
i)	Asbestos	H-1, H-2, H-3
ii)	Aluminized fabric	H-1, H-2, H-3
iii)	Glass fibre insulated fabric	H-1, H-2
iv)	Fire-resistant duck	H-2, H-3
v)	Leather	H-3, H-9
vi)	Rubber	H-4, H-5, H-6, H-7
vii)	Coated fabric	H-5
viii)	Plastics, plastics coated fabric	H-5, H-6, H-7, H-8
ix)	Synthetic rubber	H-8
x)	Wire mesh	H-10
xi)	Reinforced leather	H-10
xii)	Lead plastics or lead rubber or lead leather	H-11

APPENDIX A

(Clause 0.3)

INDIAN STANDARDS ON PROTECTION OF BODY

Aprons, lead rubber, X-ray protective	IS : 7352-1974
Aprons, rubber, for hospital use	IS : 6407-1971
Aprons, rubberized, acid and alkali resistant	IS : 4501-1967
Belt and strap, leather, linemen's	IS : 3521-1965
Clothing, leather, protective	IS : 6153-1971
Fabrics, PVC coated, for foul weather clothing	IS : 3322-1965
Suits, flame resistant and heat resistant, functional requirements for	IS : 7612-1974

(Continued from page 2)

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