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## INDUSTRIAL SAFETY HELMETS (IS: 2925 – 1984)

The use of industrial safety helmet is to provide protection to wearer against falling objects and other hazards which may be encountered in mining, tunneling, quarrying, ship building, construction projects and similar other industrial occupations.

Make : Tortoise

Colour : Blue

Fitting : Inside headband should be of PVC molded type, cotton fitting will not be accepted.

### Material

Shell : Non-metallic

### Size

Circumference inside PVC headband

Medium : 540 – 590 mm.

### Essential parts

Shell, Peak, Ventilation holes.  
Harness consisting of headband – PVC fitting  
Anti concussion tapes and  
Chin strap

### Marking

The following should be marked on the helmet

- (a) Trade mark of manufacturer
- (b) Size
- (c) ISI marking
- (d) The year of manufacturing

### Mass

400 g (maximum)

### Test and performance requirement:

- (a) Shock absorption resistance against a wooden block of 3 kg dropped from a height of 1.5 m.
- (b) Penetration resistance against a plumb of 500 g with conical steel point from a height of 3 m.
- (c) Electrical resistance against 2000 V, 50 Hz for 1 min.
- (d) < 5% water absorption when immersed in water for 24 hrs. at a temperature of 25°C.
- (e) Heat resistance in an oven at 93± 5°C for 15 min.
- (f) No visible damage when a flame from a barthel burner (IS: 4355 – 1977) is applied on the shell for 10 sec.
- (g) Sterilization and corrosion resistance tests.