

Leather gauntlets and mittens are protective equipment primarily worn by welders and workers in the iron and steel industry to safeguard against heat, abrasions, and moderately hot materials with sharp and rough edges. This standard classifies the products into three types: leather gauntlets for welders (Type 1), leather gauntlets for iron and steel workers (Type 2), and leather mittens for iron and steel workers (Type 3).

The Indian Standard on leather gauntlets and mittens was first published in 1963, and subsequently revised to integrate critical industry requirements. The third revision, IS 2573:2023, introduces a heat resistance test, updates leather specifications, and incorporates modern manufacturing and testing practices based on industrial advancements.

This standard prescribes the requirements and methods of sampling and testing for leather gauntlets and mittens. Specifications for materials include leather thickness, durability, chromate-free composition, and mildew resistance. Cotton or polyamide-cotton core spun thread and canvas are also prescribed for durability in stitching and reinforcement. Dimensions, design, and workmanship requirements are detailed, emphasizing durability and strength (6 to 8 stitches per 25 mm). Products must pass a heat resistance test where the temperature increase on the inner surface should not exceed 5°C after 5 seconds of contact with a 90°C surface.

Marking and packing requirements ensure that products are legibly stamped with the manufacturer's information, and they may be BIS-certified as per the Bureau of Indian Standards Act, 2016. Sampling guidelines outline the inspection criteria for product conformity based on permissible defect counts within defined lot sizes.