

IS 2573 : 2023 Leather Gauntlets and Mittens — Specification **(Third Revision)**

Leather gauntlets and mittens are protective gear designed for workers, particularly in welding and the iron and steel industries, to safeguard against heat, abrasions, and contact with moderately hot and rough-edged materials. The Indian Standard IS 2573:2023 categorizes these products into three types: Type 1 for welders, Type 2 for iron and steel workers, and Type 3 mittens specifically for iron and steel workers.

Originally published in 1963, this third revision of the standard incorporates updates to meet evolving industry practices, adding a heat resistance test, updating leather material specifications, and integrating advancements in manufacturing and testing processes. IS 2573:2023 details requirements for materials, including minimum leather thickness, chromate-free composition, mildew resistance, and durability. The standard mandates that stitching be performed with durable cotton or polyamide-cotton core spun thread, and that canvas reinforcement be used to enhance product longevity. Design and workmanship requirements specify dimensions and durability, with stitching density set between 6 to 8 stitches per 25 mm. To ensure heat protection, the inner surface temperature of the gauntlet or mitten should not rise more than 5°C after 5 seconds of contact with a 90°C surface.

Marking and packaging requirements ensure products are clearly stamped with manufacturer details. Sampling and inspection guidelines define product conformity through allowable defect levels within specified lot sizes, supporting quality and safety assurance.