

## IS 1989 (Part 1): Leather Safety Boots and Shoes for Miners

IS 1989 (Part 1) specifies essential requirements for leather safety boots and shoes tailored for miners, prioritising durability, safety, and comfort for underground environments.

- **Design:** Boots must be ankle-high, featuring reinforced steel toe caps to protect against heavy impacts, with cushioned tongues and moisture-absorbing lining for comfort.
- **Materials:** Includes tough upper leather, vegetable-tanned lining, and rubber or leather soles. Steel toe caps must withstand impacts up to 14 kgf.m.
- **Testing:** Products undergo rigorous impact testing and metal parts are treated to resist rust.
- **Labelling:** Boots should be clearly marked with manufacturer details, size, and batch information for traceability.

This standard ensures miners have durable, protective footwear suitable for high-stress, varied mining conditions.