

## **Summary of IS 17043 (Part 1) : 2024 Shoes — Specification Part 1 Shoes for Services**

IS 17043 (Part 1): 2024 specifies requirements for shoes used by service personnel, such as in the armed forces and police, who require footwear suitable for daily wear and rigorous activities like marching. Originally established in 2018, the standard was revised in 2024 to align with technological advancements, ensuring that these shoes meet critical needs for durability, safety, and ergonomic support. By defining precise specifications, the standard supports the production of shoes that help minimize injury risk while providing long-term comfort and functionality in demanding environments.

This standard includes both mandatory and optional requirements, covering aspects like material quality, ergonomic features, slip resistance, and insulation against heat and cold. It also specifies rigorous testing methods to verify each pair's performance, using sampling and physical and chemical tests to maintain consistent quality control. Design specifications, such as styles (derby, oxford, brogue), and dimensional and weight limits, are outlined to ensure uniformity. Durability tests include evaluations of bond strength between shoe layers, abrasion and tear resistance, and water penetration factors crucial to the shoes resilience under various service conditions.

To ensure traceability and compliance, the standard mandates specific markings on each pair, such as size, manufacturer, and production information. These markings confirm adherence to the prescribed quality and safety benchmarks. By providing clear specifications for testing, marking, and required characteristics, IS 17043 (Part 1): 2024 upholds a high standard of reliability and performance for service footwear, enhancing the safety and effectiveness of personnel who rely on them daily.