



## **Indian Standard IS 5557: 2004 - Industrial and Protective Rubber Knee and Ankle Boots**

Industrial and protective rubber knee and ankle boots are high-performance footwear designed to protect workers in hazardous environments. Industrial and protective rubber boots, reinforced with protective steel toe caps, for use in mines as well as for workmen in heavy metal industries and where the floor is covered with water, chemicals, oil, grease, waxes, lubricants etc. Built for durability and safety, they provide defense against slips, impacts, and abrasions, supporting worker safety and productivity in tough conditions.

IS 5557: 2004 specifies rigorous quality and safety requirements for these boots, addressing the critical expectations of durability, comfort, and protection. Key quality features include resistance to oils and chemicals, anti-slip soles, reinforced steel toe caps, and secure, comfortable construction for long wear. Boots under this standard are classified into two main types—Type 1 (non-oil-resistant) and Type 2 (oil-resistant)—and are available in knee, half-knee, and ankle lengths to suit specific industrial needs.

IS 5557 outlines strict requirements for material quality, minimum thickness, slip-resistant soles, and toe protection. The standard includes performance tests for properties like flexing endurance, leakproofing, oil resistance, and heat resistance, ensuring the boots can withstand harsh environments. Each boot must also be clearly marked with information on size, type, and compliance with BIS standards, helping consumers identify and trust the quality of the product.

To reinforce adherence to IS 5557: 2004, the Department for Promotion of Industry and Internal Trade (DPIIT) has issued a Quality Control Order mandating compliance for large and medium manufacturers. This order ensures that all boots produced meet BIS's standards, delivering reliable, high-standard protection for industrial workers across sectors.