



## **IS 13995:1995 UNLINED MOULDED RUBBER BOOTS- SPECIFICATION**

**IS 13995:1995** is an Indian Standard concerning **unlined moulded rubber boots**, published by the Bureau of Indian Standards (BIS). This standard falls under the category of footwear and focuses on **occupational safety and health, providing guidelines for the design, material, and performance** of unlined rubber boots used in various industries.

These boots are **designed for general-purpose use by both men and women, typically employed in various fields where durable and protective footwear is required**. The standard prescribes specifications related to material composition, design, physical properties, and testing methods to ensure product quality and performance.

**Key quality parameters for moulded rubber boot includes:**

***Durability:*** The boots must withstand wear and tear, ensuring a long lifespan. The standard specifies tensile strength and elongation requirements for the soling and heel, both before and after ageing.

***Resistance to heat and flexing:*** The boots should endure exposure to dry heat (up to 100°C) without developing brittleness or cracking. Additionally, they must exhibit good flex resistance under continuous use.

***Tear resistance:*** The upper part of the boots should have a tear resistance of at least 80 N (Newton) to prevent accidental rips during use.

***Waterproofing:*** The unlined rubber boots are expected to offer effective protection against moisture.

The standard provides specific testing methods to measure key physical properties like tensile strength, elongation at break, and tear resistance. It also defines **minimum thickness** for various parts of the boots, ensuring adequate material strength and resilience. Sampling methods outlined in the standard ensure that products conform to consistent quality levels before reaching consumers. Additionally, products marked with the BIS Certification indicate compliance with these stringent quality parameters, enhancing consumer trust.

In summary, IS 13995:1995 ensures that unlined moulded rubber boots meet the necessary durability, flexibility, and strength standards, providing consumers with a reliable and protective footwear option for general-purpose use.