

IS 15298-2 (2016): Personal Protective Equipment – Safety Footwear

Safety footwears are the ones incorporating safety features to protect the wearer from injuries that could arise through accidents. Safety footwear is covered under IS 15298(Part 2):2016. This Standard specifies the basic and additional requirements for safety footwear.

Personal protective equipment (PPE) plays a crucial role in safeguarding workers against potential hazards in various industries, and safety footwear is one of the essential components of PPE. IS 15298-2 specifically addresses safety footwear designed to protect users from risks such as **impact, compression, slipping, and punctures**. This standard ensures that footwear used in workplaces like construction, manufacturing, and warehouses meets high safety and durability criteria.

Safety footwear incorporates protective features to protect the wearer from potential injuries caused by accidents. It is equipped with toecaps and is designed to protect against compression when tested at a **compression load** of at least 15 KN and against **impact** when tested at an energy level of at least 200 J

Consumers expect good quality safety footwear to provide essential **protection, comfort, and durability**. Key features include **impact resistance** to prevent injuries from heavy objects, **slip resistance** to reduce the risk of falls on slippery surfaces, and **puncture resistance** for protection against sharp objects. Durability and comfort are also critical, as users often wear this footwear for long hours in challenging environments. Additionally, appropriate fit and flexibility are valued to prevent foot fatigue and improve user performance and safety.

IS 15298-2 (2016) ensures that safety footwear meets these quality and performance expectations. The standard specifies rigorous requirements for **impact and compression resistance**, ensuring the footwear can absorb heavy impacts and protect against compression injuries. It also includes **slip resistance testing** to minimize slipping risks and **puncture resistance requirements** for safety on surfaces with sharp objects. The standard mandates that materials used in the footwear are both durable and comfortable, ensuring they stand up to harsh working conditions while offering long-lasting protection.

The DPIIT Quality Control Order mandates that all Safety Footwears manufactured, or imported in India **shall comply with IS 15298 Part 2: 2016** and display the BIS Standard Mark.

By adhering to IS 15298-2 (2016), manufacturers produce safety footwear that protects users, meets industry expectations, and ensures comfort for extended wear in demanding environments.