

Comfort of modern living depends to a certain extent on how easily food can be prepared in kitchen. From earthen pots heated on wood fire, kitchen appliances have evolved to metal utensils heating food using electricity. IS 302-2-6: 2009 is an Indian Standard that outlines the safety requirements for household and similar electrical appliances, specifically focusing on cooking ranges, hobs, ovens, and similar equipment. This standard is crucial for ensuring that such appliances operate safely and efficiently, protecting users from potential hazards.

The standard specifies particular safety requirements for design, construction, and performance, addressing risks associated with electrical shock, fire, and mechanical failures. It includes guidelines on insulation, temperature control, and safety features to prevent accidents during normal use and foreseeable misuse.

The Indian Standard is applicable to a wide range of cooking appliances used in residential kitchens, including built-in hobs, freestanding cookers, and conventional ovens. Manufacturers, designers, and regulatory bodies may utilise this standard to ensure compliance and enhance product safety.

By adhering to this standard, manufacturers can improve product quality and consumer trust while minimizing risks associated with electrical appliances. It fosters a safer cooking environment, ultimately contributing to public health and safety. Compliance with IS 302-2-6 also aligns with global safety practices, facilitating trade and enhancing the competitiveness of Indian products in the market.