



### *Summary*

## **IS 302 (Part 2/Sec 80): 2017**

### **Household and Similar Electrical Appliances – Safety**

#### **Part 2-80 Particular Requirements for Fans**

The standard IS 302 (Part 2/Sec 80): 2017 outlines safety requirements for electric fans used in households and similar environments. It is part of the broader IS 302 series, which deals with the safety of household and similar electrical appliances. This specific section (Part 2, Section 80) addresses the particular requirements for fans, ensuring they are safe for consumer use.

The standard applies to various types of fans, such as **Ceiling fans, Duct fans, Partition fans, Pedestal fans, Table fans, including separate controls (regulators) supplied with fans**, designed for domestic or similar applications. It also covers Fans not intended for normal household use but which nevertheless may be a source of danger to the public, such as **fans intended for use in shops, in light industry and on farms**, are within the scope of this standard.

This standard does **not cover performance requirement nor does it apply to household kitchen fans, air heaters required with fans, heating, ventilating units, mechanical refrigeration equipment or air conditioners**

It specifies **safety criteria** related to electrical, mechanical, and thermal hazards. Key safety aspects include **protection against electric shock, risk of fire, and mechanical injury from moving parts**.

The standard defines the required construction materials and design specifications to ensure fans are durable and reliable. It also outlines the necessary tests and inspections for verifying the fan's safety performance. Key areas **covered** include the **fan's electrical components** (e.g., **motor, wiring, and switchgear**), **insulation, earthing, and resistance to moisture or overheating**. The mechanical aspects, such as the **strength of the fan blades and housing**, are also addressed to prevent failure during operation.

Compliance with IS 302 (Part 2/Sec 80): 2017 ensures that fans meet national safety standards, providing consumers with safe and reliable products.