

IS 15683: 2018 – Portable Fire Extinguishers — Performance and Construction — Specification (*First Revision*)

IS 15683: 2018 specifies the performance, reliability, and safety requirements for **portable fire extinguishers**. These extinguishers are designed to be easily maneuverable and quick to deploy in the event of various types of fires, including those involving ordinary combustibles, flammable liquids, electrical equipment, and cooking oils.

Users expect portable fire extinguishers to be effective, easy to operate, and reliable. They should be capable of quickly suppressing fires to prevent property damage and loss of life. Desirable qualities include a simple activation mechanism, clear usage instructions, and effectiveness over a range of fire classes.

This standard caters to user expectations by delineating stringent performance criteria across different fire extinguisher types, such as **water-based, foam-based, and CO2 extinguishers**. It details construction features that enhance usability and safety, such as ergonomically designed triggers and tamper-proof seals. The extinguishers are also required to withstand a **broad temperature range**, reflecting their utility in diverse environments. **Comprehensive testing** ensures that each extinguisher meets a defined benchmark for discharge time and range, ensuring optimal performance during emergencies.