



Indian Standard IS 14951:2001 - Fire Extinguisher-135 Litres Capacity **Mechanical Foam Type**

Fire extinguishers are **essential safety devices** that play a critical role in preventing small fires from escalating into major disasters. They provide a quick and effective way to suppress fires, potentially saving lives and **minimizing property damage**. Accessible in homes, offices, and industrial settings, fire extinguishers help control fires during the initial stages, buying valuable time for evacuation or for the fire department to respond.

135 Litre capacity fire extinguisher, mechanical foam type, is one of the larger versions of the fire extinguishers. This type of extinguisher in which foam is expanded by means of pressure produced from compressed or liquified gas from pressure container filled onto the extinguisher, is suitable for fighting fires in **non-polar flammable liquids**. Indian Standard **IS 14951**, developed by the Bureau of Indian Standards (BIS), lays down the requirements regarding **material, shape, construction, charge, anti-corrosion treatment** and tests for 135 litres capacity mechanical foam fire extinguisher, mounted vertically on trolley wheels.

This Standard specifies the quality requirements of materials used in fire extinguishers, the anti-corrosive treatment and painting applied on the extinguishers. Various tests such as quantity of foam discharge, **throw length of foam discharge**, expansion of foam, **hydraulic pressure test** have been specified in the Indian Standard.

Markings on extinguishers provide crucial information for the fire extinguisher operator, such as the method operation, capacity, declaration that the product is **tested to pressure 30kgf/cm²** and the words that after discharge the extinguisher must be washed out carefully with fresh water using at least two changes.

In summary, IS 14951 gives the **assurance on the quality of fire extinguishers**, which is vital for ensuring the safety of people and property. By complying with the standard's requirements, fire extinguishers can provide reliable, effective, and **long-lasting fire protection**, minimizing **fire hazards** and enhancing overall fire safety preparedness.