

IS 17790:2022 Insulated Flask for Domestic Use — Specification

An insulated flask is an insulated storage vessel that greatly lengthens the time over which its hot or cold content remain hotter or cooler than the flask's surroundings. The gap between the two flasks is stuffed with food grade insulated material which significantly reduces heat transfer by conduction or convection. The stainless-steel insulated flasks normally comes in various capacities from 150 ml to 2 500 ml.

IS 17790 covers minimum requirements of domestic insulated stainless steel flask for storage and maintaining the temperature of hot and cold liquids used for drinking purpose. The material used to manufacture the inner and outer container shall be stainless steel of specific grade. In case of plastic casing, the material used shall be food grade plastic, free from Bisphenol A (BPA) and shall have a minimum thickness of 1.5 mm.

To ensure the quality of the flask for desired use, the standard specifies various tests including Capacity Test, Heat Retention Capability Test, Impact Resistance Test and Leakage Test.