

IS /ISO 22702:2018

Utility Lighters – Safety Specification

Utility lighters, also known as **grill lighters, fireplace lighters, lighting rods** or **gas matches**, are hand-held devices that produce a flame, primarily used to ignite items like candles, grills, and pilot lights. Unsafe design or poorly manufactured lighters pose risks like **fires, burns**, fume inhalation or even explosions.

Indian Standard IS/ISO 22702:2018 specifies the design and manufacturing requirements for utility lighters that ensure a reasonable degree of safety for normal use and reasonably foreseeable misuse by the users. The lighters are required to prevent **inadvertent ignition** by design. It includes the requirement of a **safe flame** height and tests for resistance to **spitting, sputtering, flaring** and flame extinction. It also contains test methods to check for leakage, self-ignition, functional impairment, rupture and distortion during unintended misuse scenarios like **dropping**, storage at **high temperature** (65 degrees Celsius), prolonged burning, high internal pressure. Additionally, requirements like external finish ensure that the design is free from sharp edges or sharp points that could inflict **injuries** during handling. The standard also specifies the requirements for instructions and warnings, including those of secure **refilling** procedure to ensure that the lighters are utilized by the users in a safe and intended manner.

In view of the risks posed by unsafe utility lighters, conformity to IS/ISO 22702:2018 has been made mandatory for all the utility lighters manufactured, imported or sold in India. Conformity of a lighter to IS/IS 22702:2018 can be ensured by looking for the BIS Standard Mark (**ISI Mark**) on the product.