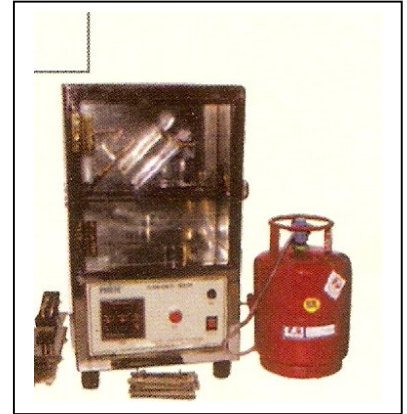


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## **Unilab** **FLAMMABILITY TESTER** **Technical Specification**



**Model** – Inclined Plane Type

**PRINCIPLE :** A sample is held in a sheet metal holder at an inclination of  $45^{\circ}$  and a flame from a burner is made to impinge on the bottom of edge of fabric. The time taken by the flame to travel a distance of 5" is determined to evaluate flammability of fabric.

**EQUIPMENT-** S.S. 304 body with mirror finish. The U shaped SS specimen holders are mounted on specimen rack. The ignition arrangement comprises of a jet which can be rotated into a position perpendicular to surface of fabric by a synchronized motor.

The ignition time can be set from 1 to 99 sec. With a preset time and the jet comes back to its initial position at the end of a Presetable time interval. The flame travel time is recorded in a Digital timer which automatically stops when the flame burns a thread due to which the weight tolls on limit switch. An acrylic door is provided in front which can be opened to place samples.

**BRUSHING DEVICE-** It is meant to prepare samples by raising the fabric. Consists of carriage which moves on tracks. A brush made of two rows of nylon bristles in mounted on bracket and moves as the carriage moves.

THE LPG Gas Cylinder needed for flame is to be provided by purchaser.

Size of test specimen holder	-	70 x 170 mm
Size of test specimen	-	50 x 150 mm

### **RELATED STADARDS**

ASTM D 1230 - 1985 : Standard Test Method for Flammability of Apparel Textiles.  
BS 2963 - 1958 : Tests for the Flammability of Fabrics Method -B- and the  $45^{\circ}$  Flame Test.  
IS 11871 - 1986 : Methods for Determination of Flammability and Flame resistance of Textile Fabrics Method – B- the  $45^{\circ}$  Flame Test.

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