



LUMETRON BP-20 Ball Pressure Apparatus



The **LUMETRON BP-20 Ball Pressure Apparatus** is designed to perform tests specified in many standards where resistance of insulating materials to elevated operating temperatures is to be determined. It is used to test insulation materials used in Electrical Appliances, Electrical wiring accessories, luminaires, motors, connectors, etc. The test ensures that external parts of insulating material, the deterioration of which might cause the appliance to fail to comply with the relevant standards, are sufficiently resistant to heat. Enclosures & other external parts of insulating material are subjected to the test. The BP-20 ball pressure apparatus is designed to verify the quality & safety characteristics of products, as required by national & international safety regulatory agencies such as BIS, UL, CSA, VDE, BSI, DIN, IEC, etc. It is a precision engineered test instrument for use by Safety & Compliance Testing Laboratories.

The sample to be tested is placed on a platform & the ball pressure apparatus is placed on top of it. The whole assembly is then placed inside an oven & maintained at the test temperature for the specified time period. After the test period, the sample & ball pressure apparatus are removed from the oven & cooled to room temperature. Finally, the depression created by the ball pressure apparatus in the sample due to

softening of the sample is measured. The sample is said to comply with the requirements if the diameter of the impression does not exceed the value specified in the relevant specifications.

Features

- * Test to determine resistance to heat in insulating materials.
- * To check insulating materials used in electrical appliances, Luminaires & accessories.
- * The apparatus checks the deterioration in insulation which might reduce the safety of the appliance.
- * All stainless steel construction.
- * Magnifier with built in scale for measuring the impression of the steel ball precisely.
- * Supplied in a compact carrying case.
- * Precision engineered test instrument manufactured according to the relevant standards.
- * OPTIONS : > **Lumetron HS-70**, Oven with Digital Temperature Controller.

Specifications

Ball Diameter	: 5 mm
Force Exerted on sample	: 20 N, \pm 0.1 N
Material of construction	: Stainless Steel
Overall dimensions	: 270 mm W x 55 mm D x 125 mm H, approximate
Platform dimensions	: 90 mm H x 80 mm dia, approximate
Magnifier	: x 10 magnification
	0.1 mm Resolution
	0 ~ 10 mm Scale
Case dimensions (mm)	: 300 W x 180 D x 115 H

