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LUMETRON HD-07 Hot Deformation Test Set



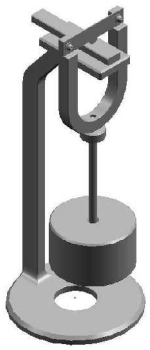
The ***LUMETRON HD-07 Hot Deformation Test Set***, from LUMETRONICS, is designed and manufactured to carry out safety tests specified in many IEC and other standards for verifying compliance to pressure applied on insulating materials at high temperature.

The specimens are tested by means of the test apparatus. This apparatus has a rectangular blade with an edge 0.7mm wide, to be used in the case of round specimens, or a blade having a round shape with a diameter of 6mm and an edge of 0.7mm, in other cases. The specimens are placed as shown.

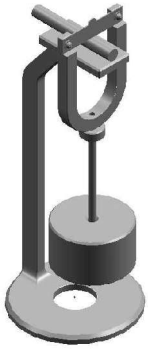
A loading force is applied through the blade with the help of a set of loading masses. The force applied depends on the values specified in the applicable specifications. The whole apparatus, with the specimen in position, is maintained for a specified period of time in a heating cabinet (oven) at the specified temperature. The time period is usually 1 to 2 hours, and the temperature between 70°C to 200°C. At the end of the time period, the specimen is removed from the apparatus and, within 10sec, cooled by immersion in cold water. The thickness of the insulation or the depth of the impression made is measured immediately at the point of impression.







Test for Flat Specimens



Test for Round Specimens

FEATURES

- Precision engineered Test Apparatus for use in Test Laboratories.
- The apparatus is used to determine the resistance of insulating materials to pressure (load) at elevated temperature.
- Allows testing of insulation materials used in electrical appliances, Luminaires, and accessories etc.
- Apparatus checks the deterioration in insulation, which might reduce the safety of the appliance.
- Set of loading masses supplied with the set allows any load from 100 gms to 1100 gms.
- A set of spare blades is provided with the test apparatus.
- Each blade has a straight edge, 0.7mm thick as well as a 6mm diameter radius edge, also of 0.7mm thickness.
- Compact design occupies minimum laboratory bench space.
- Complete stainless steel construction.
- Supplied with a Magnifier with built in scale for measuring the impression on the specimen after the test.
- Supplied in a compact carrying case.
- Constructed to meet the requirement of the relevant specifications.
- **OPTIONS:**
  - Oven with digital temperature controller - LUMETRON HS-70

SPECIFICATIONS

Type	»	Hot Deformation Test Apparatus
Blade Thickness	»	0.7 mm, ±0.01mm
Round Blade Diameter	»	6.0 mm, ±0.01mm
Basic Mass	»	100.0 gms, ±0.1 gms (Blade, "U" bracket, screws, washers, shaft, and locking disk)
Loading Masses	»	5gm, 10gm, 20gm, 20gm, 50gm, 100gm, 200gm, 200gm, 500gm ; each = ±0.05gm
Material of construction	»	Stainless steel / Tool Steel
Bracket Dimensions	»	48mm W x 8 mm D x 172mm H, approximate.
DUT Support Stand	»	195 mm H x 80mm dia., approximate
DUT Support area	»	50 mm x 25 mm, approximate
Magnifier	»	"x10" Magnification, 0.1mm resolution, 0~10mm scale
Case Dimensions	»	300 W x 180 D x 115 H (in mm), overall, approximate.
Overall Case Weight	»	3 kgs approx. (total)

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