



OIL TEST SET

The Giri Trading make Oil Test Set is a single unit compact equipment to measure the dielectric strength of insulating oils of transformers and circuit breakers.

APPLICATION:

The Oil test method is intended for the acceptance of new insulating oils at the time of their delivery, it is applicable, in principle, to all classes of new and used oils for transformer, circuit breakers, oil-filled cables and capacitors.

FEATURES:

- Oil Test Set is suitable for conducting oil breakdown test as outlined in IS 6792 :1992.
- Continuously variable output voltages.
- A Linear scaled A.C. rectifier Voltmeter marked kV to measure output voltage.
- The output voltmeter is with memory effect i.e. even after HT supply trips off due to the failure of equipment under test the voltmeter continues to show the voltage at which test piece has failed.
- Test Cup with cover is made of Methyl Methacrylate (ACRYLIC) having oil between 300 and 500 ml, with adjustable and removable mushroom head and ground to adjust the Electrode gap distance.
- Motorized cum Manual operation.
- Powder coated steel cabinet with heavy duty handles.

ELECTRODES AND PRINCIPLE OF THE BREAKDOWN TEST

The copper, brass, bronze or stainless steel polished electrodes shall be either spherical (12.5mm to 13.0 mm diameter) or spherical surface of the shape and dimension as mentioned in the figure.

The electrodes are mounted on a horizontal axis and 2.5 mm apart.

The gap between them shall be set to an accuracy of ± 0.01 mm by means of thickness gauges.

The axis of the electrodes is immersed to a depth of approximately 40 mm.

The test consists in applying to the electrodes an increasing AC voltage. The rate of increase of voltage being uniform and equal to approximately 2kV/s, starting from Zero up to the value producing breakdown.

The breakdown voltage is the voltage reached during the test at the time the first spark occurs between electrodes, whether it be transient or established.



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Oil has been used as an insulating medium in transformer for over one hundred years .From the earliest days of transformer design , oil has been recognized as being as efficient coolant with high flash point , and high electrical strength .Oil can be used in equipment for a long time if adequately maintained.
 Many factors can lead to a weakening of the insulation properties of oil. Oil degradation takes place due to Oxidation, Acids, Sludge, Gas and Water Absorption. These Processes Change The Electrical Properties Of The Oil , Which Can Be Seen From Dielectric Strength Test.
 Not Conducting Periodical Di Electrical Test May Reduce The Life Of The Transformer /circuit Breaker

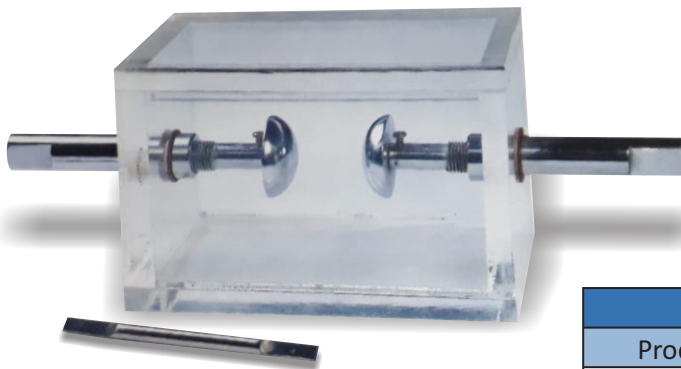
**WHY
DIELECTRIC
STRENGTH TEST ?**

TECHNICAL SPECIFICATION :

- INPUT** : 230 Volts ± 10 %, 50HZ AC single phase.
- OUTPUT VOLTAGE** : 0-60kV, 0-80kV, 0-100kV
- DISPLAY** : A Linear Scaled A.C. rectifier voltmeter marked kV to measure output voltage.
- HV INDICATION** : Mains 'ON' and H.T.'ON' Indication.
- MODE OF OPERATION** : Motorized / Manual operation Interlocking
- INTERLOCKING & SAFETY** : H.T. Chamber door interlocking.
- PROTECTION** : Reverse interlock.
- TEST CUP** : Quick acting D.C. relay to isolate the H.T.
 Test Cup with cover is made of Methyle Methacrylate (ACRYLIC) having oil between 300 and 500m1, with adjustable and removable mushroom head and ground to adjust the Electrode gap distance.

ACCESSORIES

- Test cell with Electrodes.
- Instructions Manual.
- Warranty Card.
- Calibration Certificate. (MFG)
- Test cell with Electrodes.



ORDERING INFORMATION		
Product		Order Code
OTS-60	KV Motorized / Manual Operated Oil Break Down Test Set	
OTS-80	KV Motorized / Manual Operated Oil Break Down Test Set	
OTS-0-100	0-100 KV Motorized / Manual Operated Oil Break Down Test Set	