

RY1 & SG121

Test Cell for liquid Insulants



The precision test cell type **RY1** measures the dielectric properties of liquid insulants such as insulating oil, i.e. it determines the dissipation factor $tan\delta$ and the dielectric constant ϵr as well as the specific resistivity.

The test cell has been designed as a cylindrical capacitor with a shielded measuring electrode (guard ring capacitor) thus avoiding partial capacitances, which might influence the test results.

The test cell's design is in accordance with the specifications of VDE 0303, 0370 (Fed. Republic of Germany), SEV (Switzerland) and the recommendations of CIGRE. IEC and ISO, as well as with ASTM standards (USA), and it can be used as a replacement Swiss product TETTEX2903.



The temperature controller type SG121 with digital temperature adjustment is used to heat up the test cell.

Advantages & Benefits

- The test cell is in accordance with international standards and specifications.
- ◆ The temperature is adjustable up to 200°C
- The cell can be evacuated, e.g. to degas the insulating oil.
- The electrodes are made of stainless steel.
- The test results are reproducible thanks to precise mechanical design.

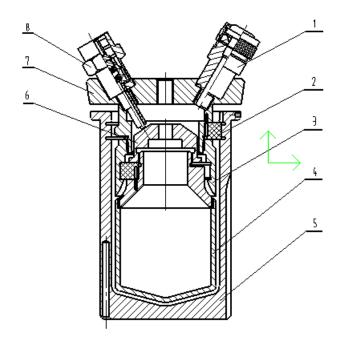
Technical Specifications

Empty cup capacitance:	60 pF		
Electrode spacing:	2mm		
Amount of liquid:	40 cm3		
Electrode material:	Stainless steel		
Surface:	Micro finished		
Electrode temperature:	Ambient temperature: 200°C		
Heating capacity:	Heating 1000W		
Heat-up time:	30 min		
Built-in fuses:	8A		
Max. Test voltage:	2000 V RMS, 50/60 Hz		
Max. Electric field:	10 kV/ cm		
Dimensions:	240mm×220mm		
Weight:	10 kg		
			



Structure Summaries

Electrode Structure as follows:



- 1. Vacuum connect
- 2. Insulating pillar
- 3. Shielding protective electrode (Protective wing)
- 4. Measurement electrode (Interior electrode)
- 5. High voltage electrode (Exterior electrode)
- 6. Fastening screw cap
- 7. Installing body
- 8. Measurement electrode outlet end

Detail Pictures:





For further information please contact:

SHANGHAI JIUZHI ELECTRIC CO., LTD (Samgor Technology)

Add: No.500, Renmintang Rd., Caolu Town, Pudong,

Shanghai, 201209, China

Tel: 86-21-58999552 58999556

Fax: 86-21-33901039
E-mail: info@samgor.com
Http:// www.samgor.com

