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# TE-07 Liquid Chemical Resistance Tester

**Purpose:**
Apparatus is intended for the measurement of indications of penetration, absorption and repellency for protective clothing materials against liquid chemicals, mainly chemicals of low volatility and materials for other use. Data obtained by this method may be used as a guide for screening protective clothing materials.

**Apparatus is made according to the requirements and apply for the tests according to the following standard:**

**EN ISO 6530** Protective clothing – Protection against liquid chemical – Test method for resistance of materials to penetration by liquids

**Description of the device:**
The device consists of rigid transparent movable semi-cylindrical gutter for mounting samples, semi-cylindrical rigid cover, motorized dosing system to deliver correct volume of test liquid [(10 ± 0,5) $cm^3$ within (10 ± 1) s] with syringe and hypodermic needle with protective cover, and small beaker.

**Dimension**: (L) 240 x (W) 370 x (H) 650 mm;
**Weight:** 16 kg
**Power supply:** 230 V~50 Hz

**Operating principle:**

Place the weighed transparent film, absorbent paper and test specimen (in that order) in the gutter and secure with clips. The sample should be mounted so that the liquid strikes the outside face of the fabric. Eliminate all creases in each layer and ensure that all surfaces are in close contact. Weight the beaker to the nearest 0,01 g and place it under folded edge of the test specimen. Start device and discharge the test liquid onto the surface of the test specimen and put the cover on top of the specimen. After 60 s from the discharge carefully remove test specimen, absorbent paper and transparent film and reweigh them to express results.

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