

High Ohm Textile Electrode

TE 50

for measuring volume and surface resistivities of textiles according to standard DIN 54345-1, DIN EN 1149-1 and DIN EN 1149-2

Milli-TO3 optional



Surface measurement with grounded baseplate

- ▶ ring electrode in high-grade steel and aluminium quality
- ▶ diameter measuring surface: 50,4 mm
- ▶ inner measuring surface: 1995,0 mm²
- ▶ diameter of guard ring: 89,0 mm outside
69,2 mm inside
- ▶ diameter of baseplate: 110 mm
- ▶ total weight: 1020 g (± 20 g)
- ▶ weight of inner electrode: 460 g (± 10 g)
- ▶ weight of ring electrode: 560 g (± 10 g)
- ▶ max. measuring voltage: 500 V
- ▶ recommended measuring range:
 - with 100 V measuring voltage: 10⁵ bis 10¹⁵ Ohm
 - with 500 V measuring voltage 10⁶ bis 10¹⁵ Ohm
 - with 1 V measuring voltage: 10³ bis 10¹³ Ohm
- ▶ with insulating cylinder and insulating disc for the baseplate

The guard ring electrode TE 50 is arrangement for a variety of measurements of volume and surface resistance of textile fabrics and yarns and fibers.

In connection with the measuring devices Milli-TO 3 and TO-3 high-precision measurements in the high ohm range are possible.

The insulating cylinder is needed for the measurement of the volume resistance of yarns and fibers.



Volume measurement



Volume measurement
Yarns and fibers