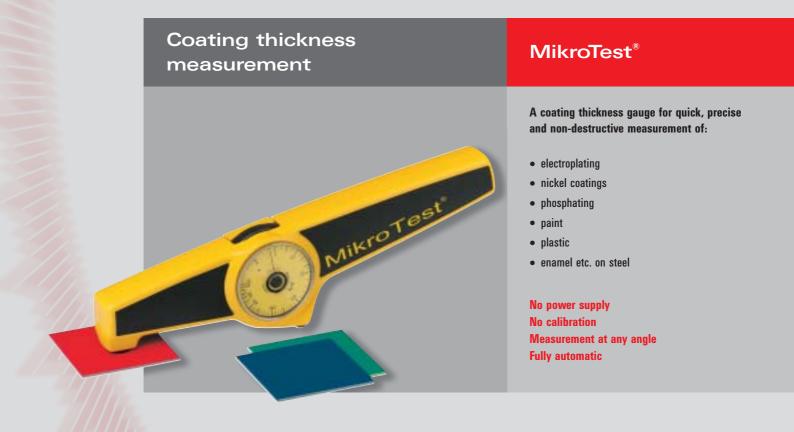
Advancing with Technology Elektro Physik



MikroTest Magnetic coating thickness measurement

The MikroTest has been the most widely used coating thickness gauge in the world over the last 40 years. International patents and our production "know-how" ensure that the gauge has the highest technical standards of all analogue magnetic coating thickness gauges.

All instruments conform to national and international standards: DIN EN ISO 2178, DIN 50 982, ASTM B 499, E 376, D 1186, G 12, B 530, BS 5411, ISO 2361

Coating thickness standards for checking the accuracy of MikroTest



Application

11 Models – a MikroTest for every application (see table)

The balanced measuring system ensures accurate readings at any angle

- Horizontal, vertical, overhead
- The gauge allows measurements on curved surfaces
- Precise measurements in tubes and on round parts due to the automatic operation

Measuring principle

The measurement of the coating thickness is based on magnetic attraction. The attractive force is related to the distance between a permanent magnet and a steel substrate. This dis-

tance represents the thickness of the coating to be measured. The magnet is lifted from the surface by means of a spring connected to the magnet arm. The force needed to lift the magnet is directly related to the angle of rotation of the torsion spring.

This measuring principle is also especially suited for electroplated nickel on copper, aluminium and other non-ferrous metals.

Technical data

Features to make your quality control more precise and accurate

- Highest accuracy with simplest operation
- No calibration necessary
 Simple set-up and measurement
- All gauges are without power or battery

- One point measurement
- Robust metal case to protect from mechanical shocks
- Precision measuring system resistant to solvents

Useful accessories

- Belt pouch for safe transport of the MikroTest®
- Wet film gauge for measuring the thickness of wet coatings
- Coating thickness standards for checking accuracy

Supply schedule

- MikroTest® gauge with hand strap
- Plastic carrying case
- Operating instructions

Туре	Range	Application	Tolerance*	Minimum surface	Minimum curvature radius of the sample	Minimum base thickness
5/6 G	0 100 μm	Electroplating and paint coatings on steel**	± 1 μm or 5% of reading	Ø 20 mm	5 mm convex/ 25 mm concave	0.5 mm
5/6 F	0 1000 μm	Paint on steel**	\pm 5 μm or 5% of reading	Ø 30 mm	8 mm convex/ 25 mm concave	0.5 mm
6 S3	0.2 3 mm	Γ	± 5% of reading	Ø 30 mm	15 mm convex/ 25 mm concave	1.0 mm
6 S5	0.5 5 mm	Enamel, plastic, rubber on steel**	± 5% of reading	Ø 50 mm	15 mm convex/ 25 mm concave	1.0 mm
6 S10	2.5 10 mm		± 5% of reading	Ø 50 mm	15 mm convex/ 25 mm concave	2.0 mm
6 S20	7.5 20 mm	L	± 5% of reading	Ø 100 mm	100 mm convex/150 mm concave	7.0 mm
6 Ni50	0 50 μm	Electroplated nickel	\pm (1 μm + 5% of reading)	Ø 15 mm	5 mm convex/ 25 mm concave	-
6 Ni100	0 100 μm	on non-ferrous substrates	± (1 μm + 5% of reading)	Ø 15 mm	5 mm convex/ 25 mm concave	-
6 NiFe50	0 50 μm	Electroplated nickel on steel**	± (2 μm + 8% of reading)	Ø 20 mm	10 mm convex/ 25 mm concave	0.5 mm

^{*} Referring to ElektroPhysik standards

(Type 5 = Standard version Type 6 = Automatic version)

ElektroPhysik

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^{**} Steel: ST 33 to ST 60