

Dry film thickness gauge with fixed and cable sensor

byko-test 9500

The byko-test 9500 dry film thickness gauge has a modular design to accommodate a wide range of applications. It is compatible with ferrous as well as non-ferrous substrates on smooth, rough, and even curved surfaces. A scratch and chemical resistant 61 mm (2.4") color display combined with dust and splash water protection make it the ideal workhorse for everyday measurements. An optional cable sensor probe allows for the measurement of hard-to-reach surfaces. The easy-to-use operator menu allows quick navigation and fast creation of documentation through a USB-to-PC connection.



Precise and Accurate

The byko-test 9500 is the ideal tool for validation and quality control

- High accuracy over the entire measurement range
- High repeatability of measured results
- Works on rough, smooth and even curved substrates
- Temperature compensation directly in the sensor
- Direct feedback from limit indicator in display and RGB-LED on the probe



The ideal workhorse

The byko-test 9500 is the ideal workhorse for reliable measurements even under harsh conditions.

- IP65 dust and splash water protection
- Fiberglass reinforced casing
- High scratch and chemical resistance (Level H6)
- Temperature probe operational from -20 °C to 70 °C



Flexibility

The byko-test 9500 features the ability to exchange probes quickly and easily. The integrated dual Fe / NFe sensor probe is the perfect choice for most measurement needs. The additionally supplied cable sensor probe allows for the measurement of even hard to reach surfaces with ease. The byko-test 9500 is available in two versions:

Basic Version

With all important functions needed to measure and evaluate the film thickness of any substrate. Equipped with a dual probe for seamless measurement of ferrous and non-ferrous substrates. Equipped with a total memory of 10,000 readings and connection to PC via USB.

Premium+ Version

Additional memory for up to two million readings with the option to program up to 100 different jobs. Additional continuous measurement mode and adjustment for ISO 19840 and SSPC zero offset as well as two-point accuracy verification.



Thickness Standards

For control and inspection purposes individual shims or sets of thickness standards are available as accessories.



Standards

ASTM B 499, D 1186
ASTM 1400, ASTM D 7091
ISO 2178, 2360,
ISO 2808, 19840
DIN 50981, 50984
BS 3900-C5
BS 5411-3
BS 5411-11



Catalog Number	3676	3677
Short Description	byko-test 9500 Basic	byko-test 9500 Premium+
Measuring Range Mils / μm	0 - 118 mil 0 - 3000 μm	
Accuracy	Fe: 0-2000 μm : $\pm (1 \mu\text{m} + 2 \%)$ NFe: 0-2000 μm : $\pm (2 \mu\text{m} + 2 \%)$ Fe & NFe > 2000 μm $\pm 3 \%$	
Measuring area, min.	14.5 mm \varnothing 0.6 in \varnothing	
Minimum Curvature	Fe (NFe) convex: 4 mm (30mm) with 2-point-adjustment, zero and 250 μm on original substrate 6 mm (50 mm) with zero adjustment on original substrate Fe (NFe) convex: 0.16 in (1.2 in) with 2-point-adjustment, zero and 9 mils on original substrate 0.24 in (2 in) with zero adjustment on original substrate	
Minimum substrate thickness	Fe (NFe) 25 μm (20 μm) with 2-point-adjustment, zero and 250 μm on original substrate 100 μm (50 μm) with zero adjustment on original substrate Fe (NFe) 1 mil (0.8 mils) with 2-point-adjustment, zero and 9 mils on original substrate 4 mils (2 mils) with zero adjustment on original substrate	
Resolution	Adjustable: 0,1 μm (0,1 mils) or 0,01 μm (0,01 mils)	
Interface	USB	
Power supply	2 x AA Batteries 1.5 V Alkali, or rechargeable AA 1.2 V	
Weight	0.27 kg	
Operating temperature	-20 - 70 $^{\circ}\text{C}$ -4 - 158 $^{\circ}\text{F}$	
Storing temperature	-20 - 70 $^{\circ}\text{C}$ -4 - 158 $^{\circ}\text{F}$	
Dimensions: L x W x H	16 x 6.8 x 3.8 cm 6.3 x 2.7 x 1.5 in	

Delivery Content

Instrument
Dual Probe 3mm for byko-test 9500, ISO 17025 (3678)
Extension Cable for 5500/9500 DFT Gauges (15077)
Fe- and NFe- Reference Plate w/2 Foils (15078)
2 Mignon batteries 1,5 V (AA) alkaline
Certificate
Operating Manual

Catalog Number	Short Description
7100	Precision Shim, 0.50 mil/12.7 µm
7101	Precision Shim, 0.90 mil/22.9 µm
7102	Precision Shim, 2.00 mil/50.8 µm
7105	Precision Shim, 4.75 mil/121 µm
7106	Precision Shim, 6.75 mil/172 µm
7110	Precision Shim, 10.0 mil/254 µm
7120	Precision Shim, 20.0 mil/508 µm
7140	Phenolic Standard, 40 mil/1016 µm
15077	Extension cable for 5500/9500 DFT Gauges
15078	Fe- and NFe- Reference Plate w/2 Foils
3678	Dual Probe 3mm, byko-test 9500, ISO17025