

Sealing quality tester for anodic coatings on aluminum

Measuring anodic film thickness with an ISOSCOPE® leaves the job only half done since the weather resistance of a finish is also a function of sealing quality. That is why you need an ANOTEST®.

It is known that the admittance (Y) of a capacitor in which the anodic oxide film forms the dielectric is a good yard-stick of sealing quality (DIN EN ISO 12373-5 and ASTM B 457-67).

The ANOTEST® YMP30-S measures the admittance according to standards, and due to its design is ideally suited for on-site measurements.



Measurement procedure

A self-adhesive rubber ring is placed on the surface to be tested and the space so enclosed filled with a few drops of a test fluid. The aluminum substrate is then connected to the earthing socket of the unit and the test electrode dipped into the cell fluid, thereby forming a capacitor in which the anodic film acts as the dielectric. It is the admittance of this capacitor which is measured and directly indicated in μS (microsiemens).

Features

- Large LCD for measurements and text lines for operating instructions.
- Battery or AC line operated.
- Capability for entering all relevant test parameters such as measurement cell area, thickness of the anodic coating specimen temperature and measuring time.
- Automatic measurement start after insertion of the probe in the cell.
- Automatic computation of the admittance referenced to standard sizes (oxide coating thickness 20 μm ; measurement area 133 mm^2 ; temperature 25°C).
- Signaling for poor sealing (e.g., $Y > 15 \mu\text{S}$)
- Acoustic signal for start and end of measurement.
- Automatic shut-off.
- Storing of 10,000 measurements in up to 100 applications.
- Statistical evaluation.
- Display selectable in 8 languages.
- RS232 interface for documenting the measurement data using a printer or PC.

Technical data

Measurement frequency: 1 kHz (DIN EN ISO 12373-5)
 Measuring ranges:
 Test cell \varnothing 6 mm⁽¹⁾: 14 - 1400 μS
 Test cell \varnothing 13 mm: 3 - 200 μS
 Test cell \varnothing 26 mm⁽¹⁾: 0,75 - 75 μS
 Note: Referenced to the standard measurement cell area of 133 mm^2 .

Power supply: battery 9V6LR61

Dimensions (LxWxH): 160x80x30 mm

Mass: 230 g

⁽¹⁾ The meas. cells with a \varnothing of 6 mm or a \varnothing of 26 mm do not permit standardized measurements because the test areas are too small or too large.

Ordering information

| Name | Order Number |
|--|--------------|
| <i>Instrument incl. standard accessories</i> | |
| ANOTEST® YMP30-S | 603-800 |

Optional Accessories:

| | |
|--------------------------|---------|
| Electrical reference | 600-772 |
| Placement support | 600-025 |
| Interface set MP | 602-341 |
| Software PC-DATEX | 602-465 |
| Software PC-DATACC | 603-028 |
| Printer FMP3040 | 602-890 |
| Carrying box MP | 602-891 |
| Carrying case MPOD/30/40 | 602-120 |

Spare parts

| | |
|-----------------------------------|---------|
| Measuring cable YMP30-S | 603-855 |
| Grounding cable ANOTEST® | 600-767 |
| Grounding clamp, stainless steel | 600-766 |
| Bottle testing liquid | 600-768 |
| VE meas. cell \varnothing 6 mm | 600-769 |
| VE meas. cell \varnothing 13 mm | 600-770 |
| VE meas. cell \varnothing 26 mm | 600-771 |



ANOTEST® YMP30-S with grounding cable and grounding clamp, meas. electrode and meas. cell.



Practical and sturdy carrying box for on-site measurements.



Accurate electr. reference for the calibration of the ANOTEST® YMP30-S.

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Subject to changes

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