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4.0 8.0

Safe and sure – ISOTEST®

ISOTEST inspect

Porosity Testing of Coatings



Benefits at a glance

- Microprocessor controlled test instrument
- Fully adjustable test voltage
- Patented automatic regulation function
- Power reserve for demanding test situations
- Excellent test sensitivity via menu
- Easy to read, alphanumeric LCD
- Easy operation of all functions
- Safety mode – selectable from the menu
- Acoustic and visual indication of porosity

ELMED
MEASUREMENT TECHNOLOGY

ISOTEST inspect stands for:

- New, attractive design with membrane keyboard
- Selection of menu languages
- Pore counter with reset
- Error warning display
- Overload warning
- Hours run meter
- Battery level display
- Rapid battery change – on site
- Can be easily carried using shoulder strap and abdominal belt
- Menu-driven emergency stop
- No static charge when testing
- Automatic earth monitoring



Picture: SGL Acotec GmbH)

Application

Non-conductive coatings and coverings on a conductive base, such as metal, can be high voltage tested non-destructively. Normal visual inspection can easily miss pores, cracks or other damage that are easily detected by high voltage impulses. Corrosion protection, inspection of seams in plastic, even the waterproofing of coated concrete all fall into the extensive range of applications possible with the ISOTEST inspect. This high voltage test instrument is an indispensable assistant in quality control - for goods inwards inspection as much as in production or servicing.

The many fields of application include the construction of tanks and containers, and the testing of completely insulated objects and fittings. It is used in tubing and pipeline manufacture, in rubber coating and in paint and enamel testing.

For damp, dirty and even only slightly conductive surfaces, the ISOTEST inspect offers you the maximum test energy with the greatest possible safety – for both the tester and the test results. High voltage impulse technology coupled with patented automatic regulation keeps the test voltage stable, even in extreme circumstances. The microprocessor controlled sensitivity adapter guarantees a non-destructive test with the ideal test voltage.



(Picture: Infraserb Hoechst Technik GmbH & Co. KG)



(Picture: Bayer AG)

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ISOTEST inspect



A selection of the large range of accessories.



ISOTEST inspect 4.0

Test voltage 0.5-4.0 kV, 0.5 kV steps

ISOTEST inspect 8.0

Test voltage 1.0-8.0 kV, 1.0 kV steps

These instruments have been specially developed for testing sensitive coatings like FBE, enamel, epoxy, Halar etc.

Benefits: An intelligent signal analysis makes it possible to test completely coated parts. The menu-driven sensitivity of the instrument guarantees exact test results. The integrated pore counter makes it easier to meet works specifications and standards.

ISOTEST inspect 35

Test voltage 5-35kV, 0.1 kV steps

Performance for every application

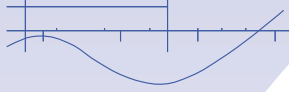
Benefits: Energy reserves for the most demanding test situations, thanks to impulse voltage technology. The ISOTEST inspect can cope with large diameter, humid, dirty and even slightly conductive surfaces. The battery strength display, hours run meter, safety button activation via the menu, the easy to use membrane keyboard and display bear witness to the wide range of possible uses.

Delivery package includes:

- ISOTEST inspect test instrument complete with high voltage inspection probe including safety button.
- Lead acid 6 V rechargeable battery – easy to change in its own compartment
- Charger 230 V / 50 Hz
- Earth cable 10 m* / 15 m with a robust clip and instrument plug with earth monitoring.
- Earthing cable* 15 m with clips at both ends
- Earthing foil set* with special aluminium foil
- Test electrode up to 500 mm
- Comfortable instrument bag with carrying strap and belt
- Robust aluminium transport case
- Extensive instruction manual
- Works and calibration certificate

* valid only for versions
4.0 and 8.0

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4.0 8.0



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Accessories



A large range of accessories is available for a variety of applications. Test electrodes can be supplied for the most diverse shapes of object, including special stainless steel versions for the chemical and pharmaceutical industries.



The fully trimmed brush electrodes and spiral electrodes are extremely robust and hardwearing. All electrodes can be easily swapped – even with older versions of ISOTEST. Our expert service personnel are always available to advise you on the choice of the right accessory for your application – especially for less common uses of the equipment.

Whether testing internally, in manholes, with completely coated components or in oversized tubing, the ISOTEST accessory programme has the right tool for you.

Service – Calibration

ISOTEST instruments have a PTB traceable calibration and come with a works certificate. A clearly visible test seal makes it easier to keep to the recommended inspection dates. The data can also be accessed through the menu.



More up to date information at
www.isotest.de

Technical Data

	4.0	8.0	35
Voltage range	0.5-4.0 kV	1.0-8.0 kV	5.0-35 kV
Voltage display	8 figure LCD		
Voltage form	unipolar impulses		
Impulse duration	<10 µs		
Voltage supply	Lead acid rechargeable battery 6 V, 4.5 Ah, separate compartment		
Size and weight of battery	(90 x 45 x 120) mm, 0.9 kg		
Battery life	up to 9 hours		
Size	(220 x 256 x 88) mm		
Weight w/o battery	> 3 kg		
Alarm signal	approx. 86 dB, 3500 Hz frequency		
Length of cable to test probe	1.5 m		
Relevant standards and DVGW process sheets	DIN 55670, DIN 28055, DIN 30670, DIN 4681, DIN 28063, DIN EN 14330 (iV), DVGW 462/1, W400-2		