

## Paint Inspection Kit



Ascott Analytical Equipment Limited

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**ascott**  
Corrosion Test Chambers

Testing climate resistance **to the limit**

## Paint Inspection Kit

The Paint Inspection Kit contains all the essential equipment needed for the testing of blast-cleaned steel and coating inspection using the following equipment.



Testex Replica Tape / Replica Tape Gauge.  
Surface Profile measurement of blast-cleaned steel.

Bresle Test. Measurement of salts and corrosion products on blast-cleaned steel.

Dust Tape Test. Assessment of the quantity and size of dust particles on blast-cleaned steel.

Dewpoint Meter. Testing for the probability of condensation on blast-cleaned steel.

Wet Film Gauge. Wet film thickness measurement of the coating.

Coating Thickness Meter. Dry film thickness measurement of the coating.

### Compliance

Testex Replica Tape: ISO 8503-5, ASTM D4417 and NACE SP0287.

Bresle Patch Test: ISO 8502-6 and ISO 8502-9.

Dust Tape Test: ISO 8502-3.

Dewpoint Meter: ISO 8502-4.

Wet Film Gauge: ISO 2808 and ASTM D4414.

Coating Thickness Meter: ISO 2008, ISO19840, ISO 2360, ISO 1461, ISO 2063, ASTM D7091, ASTM E376 and ASTM G12.

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## Supply

Testex Replica Tape X Coarse (50 impression roll), Replica Tape Gauge and Burnishing Tool.

Bresle Patches (pack of 35), Conductivity Meter, 500ml Deionised Water, 5ml Syringe with Needle, Calibration Solution (14ml), Conditioning Solution (14ml) and 25ml Beaker.

Dust Test Tape (60m roll), Dust Test Comparator (pack of 50) and X10 Illuminated Magnifier.

Dewpoint Meter and Humidity Sensor.

Wet Film Gauge (pack of 5).

Coating Thickness Meter (C5001), Ferrous Probe, set of 8 Calibration Foils and Zero Disk.

Calibration Certificates with traceability to UKAS are an optional extra.

## Ordering

T01-710200 Paint Inspection Kit

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## Testex Replica Tape

A unique replica technique and a snap gauge enable accurate, blast-cleaned surface profile measurements. Testex Replica Tape makes Surface replicas easy to obtain and produces average maximum peak-to-valley readings that ensure optimum blasting effectiveness. Replicas can be retained for future needs.



The Replica Tape Gauge is used to measure the Testex Replica Tape replica and determine the average maximum peak-to-valley height of the blasted profile.

### Principle

The replica film in the Testex Replica Tape consists of a layer of crushable plastic microfilm coated onto a polyester substrate of a highly uniform thickness 50µm (2mil). When compressed against a hard surface, the Microfoam collapses to about 25% of its original thickness.

During compression the foam acquires an impression of the surface against which it is burnished. The highest peaks on the test surface displace the fully compressed foam and come to rest against the polyester substrate. The deepest valleys on the test surface create the highest peaks on the replica.

This method measures an average maximum peak-to-valley profile. The anvils of the Replica Tape Gauge flatten the replica profile slightly so that the reading equates to an average maximum value.

### Specification

Replica Tape Gauge accuracy:  $\pm 1\%$ FSD.

Temperature: Produces accurate replicas on surface temperatures of  $-10$  to  $+65^{\circ}\text{C}$ .

Storage: Do not expose the Testex Replica Tape to any extremes of temperature or daylight.

Shelf Life: The replica foam has no expiry date. The only degeneration is the adhesive on the Tape.

We would recommend that the Tape is used within a 12-month period from date of purchase

### Compliance

ISO 8503-5, ASTM D4417 and NACE SP0287.

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## Bresle Patch Test

The Bresle Test will measure water-soluble salts and corrosion products on blast-cleaned steel. These compounds are almost colourless and are localized at the lowest point of the rust pits.



If they are not removed prior to painting, chemical reactions can result in blister formation and accumulations of rust that destroy the adhesion between the substrate and the applied protective coating.

### Specification

Conductivity Meter Accuracy:  $\pm 2$ .

Conductivity Meter range: 0–1999 $\mu$ S/cm.

Conductivity Meter resolution: 1 $\mu$ S/cm.

Storage: Do not expose the Bresle Patches to any extremes of temperature or daylight.

Shelf Life: The only degeneration on the Bresle Patches is the adhesive if exposed to extremes of temperature.

We would recommend that the Bresle Patches are used within a 12-month period from date of purchase.

### Compliance

ISO 8502-6 and ISO 8502-9.

## Dust Tape Test

Assess the quantity and size of dust particles on steel surfaces prepared for painting. Dust particles on blast-cleaned steel surfaces may reduce the adhesion of applied coatings, and by absorbing moisture may promote the corrosion of the steel surface



Accumulation of dust particles occurs more naturally on horizontal surfaces, the interior of pipes and in structural cavities. Inspection should be carried out to ensure that such areas are adequately cleaned and free from dust particles before painting.

The Dust Test Comparator shows 5 classifications of dust particles and 4 sections of contrasting backgrounds where the Tape can be applied.

The Dust Tape Test is suitable for the assessment of dust particles retained after blast-cleaning on rust grades A, B and C. Because of the limited elasticity of the Tape, it is not possible to penetrate into the deep pits present on blast-cleaned steel rust grade D.

### Specification

Tape adhesion strength: 190nN/metre.

Tape width: 25mm (1").

Tape length: 60 metres.

Tape Storage: Do not expose the Tape to any extremes of temperature or daylight.

Tape Shelf Life: We would recommend that the Tape is used within a 12-month period from date of purchase.

### Compliance

ISO 8502-3.

## Dewpoint Meter

The Dewpoint Meter enables testing for the estimation of the probability of condensation on a surface to be painted and establishing whether conditions are suitable for painting or not.



The steel surface temperature generally should be at least 3°C above the dew point when paints are applied. Below this temperature the Dewpoint Meter will sound an alarm and the display colour will change to warn you that the surface conditions are not suitable to paint.

Measurements of relative humidity, dew point, air temperature, Surface temperature and surface temperature proximity to dew point (delta T) are shown.

Built in infrared thermometer for surface temperature measurements.

Interchangeable Humidity Sensor allows the user to replace damaged or out-of-calibration-date Sensor.

### Specification

Accuracy Humidity Sensor: 10–90% ±2%rh. 0–10/90–100% ±3%rh.

Resolution Humidity Sensor: 0.1%rh.

Resolution Temp: 0.1°C (0.2°F).

Accuracy infrared Thermometer: ±2%.

Range infrared Thermometer: -20°C to 80°C. (-4°F to 176°F)

### Compliance

ISO 8502-4.

## Coating Thickness Meter

The Coating Thickness Meter will measure all coatings on metallic substrates using the magnetic induction or eddy-current principles, ensuring the correct coating thickness has been applied.



One of the most advanced portable Coating Thickness Meters on the market, incorporating all the following user functions.

**Calibration.** Calibrate on any blasted profile or any shape of substrate using the Calibration Foils supplied.

**Calibration Memories.** The calibration settings for different substrates and shapes can be stored and recalled when required.

**Statistics.** shows Mean, Number of Readings, Max/Min, Coefficient of Variation and Standard Deviation.

**Limits.** Pass and fail with audible and visual alarm.

**Metric/Imperial.** Select measurement units.

**Batching.** Measurements can be stored into batches which incorporate batch number, job number, and date and time. You can also go back to previous batches and look at the statistics and add or cancel readings.

Download. Measurements, statistics and out-of-limit readings can be downloaded to a computer either by batch number or job number into Microsoft Word or Excel

### Specification

Accuracy:  $\pm 1$  to 3%.

Resolution 0–1000 $\mu$ m/0–2000 $\mu$ m: 1 $\mu$ m (0.1mil).

Resolution 0–5.00mm: 0.01mm (0.1mil).

Resolution 0–20.0mm: 0.1mm (0.1mil).

### Compliance

ISO 2008, ISO19840, ISO 2360, ISO 1461, ISO 2063, ASTM D7091, ASTM E376 and ASTM G12.

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