



# Paint Test Equipment



**Inspection**



# Paint Test Equipment

## Paint inspection Kit

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



### Supply

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.

The Paint Inspection Kit is supplied with the C5001 Ferrous 0–1000µm Coating Thickness Meter. Other models of Coating Thickness Meters are available on request to cater for thicker coatings and Non-Ferrous substrates.

Part No	Product
K3001	Paint Inspection Kit
NK002	Paint Inspection Kit Calibration Certificates



# Paint Test Equipment

## 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.



### Information

One of the most advanced Coating Thickness Meters, incorporating all the following functions.

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

**Calibration Memories.** Calibration settings can be stored and recalled when required.

**Statistics.** Shows Mean, Number of Readings, Max/Min, and Standard Deviation.

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

**Batching.** Measurements can be stored into batches which incorporate batch number, job number and date and time.

**Download.** Measurements can be downloaded to a computer either by batch number or job number into Microsoft Word or Excel using the optional PC Download Cable (CA101).

### 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.



# Paint Test Equipment

## Wet Film Gauge

The Wet Film Gauge will measure the paint thickness while the coating is still wet.



### Information

Manufactured in aluminium, the Wet Film Gauge can either be kept as a record for the wet film thickness taken or cleaned in solvents and reused.

Wet film thickness measurement should be taken as soon as possible after the coating application by pressing the Wet Film Gauge onto the coated flat surface so it touches the substrate. Allow sufficient time for the coating to wet the teeth before removing the Gauge.

The coating thickness can now be observed by looking at the base of the teeth. The Coating Thickness measurement lies between the coated tooth and next uncoated tooth.

### Specification

Number of teeth: 30

Teeth Values: 25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 900, 1000, 1150, 1250, 1400, 1500, 1650, 1800, 2000µm.

### Compliance

ISO 2808 and ASTM D4414.



# Paint Test Equipment

## Testex Tape

A unique replica technique and a snap gauge enable accurate, blast-cleaned surface profile measurements. Testex 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.

### Information

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

The replica film in the Testex 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 Testex Gauge flatten the replica profile slightly so that the reading equates to an average maximum value.



### Specification

Testex Gauge accuracy:  $\pm 1\%$ FSD.

Temperature: Produces accurate replicas on surface temperatures of -10 to +65°C.

Storage: Do not expose the Testex 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.



# Paint Test Equipment

## 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.



### Information

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.



# Paint Test Equipment

## Dust Test Tape

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.



### Information

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.

### Specification

Tape adhesion strength: 190nN/metre.

Tape width / length: 25mm (1"). 60 metres.

### Compliance

ISO 8502-3.



# Paint Test Equipment

## 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.

### Information

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.



### Specification

Accuracy: Humidity Sensor 10–90%  $\pm 2\%$ rh.  
Infrared Thermometer  $\pm 2\%$ .

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

### Compliance

ISO 8502-4.

Paint Test Equipment reserves the right to alter specifications without prior notice

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Paint Test Equipment is a global leader in the manufacture of specialist test equipment specifically for the industrial painting and coating industries for the protection of steel assets from corrosion, mainly in the oil, renewables and steel construction sectors. We have over 30 years experience and extensive knowledge in delivering practical solutions in supporting our customers with world class products for corrosion prevention.

Prevention of corrosion on steel is essential to extend the asset lifetime, optimise performance and minimise downtime for expensive maintenance work. Using Paint Test Equipment products ensures that industrial coatings are applied to the highest achievable quality standards of ISO compliance.

We supply small, medium and multinational companies with the full range of technologies and innovations in our unrivalled portfolio of products for our customers to grow their business and enhance profits through cost effective corrosion management equipment.

Paint Test Equipment is committed to providing proactive and innovative solutions to meet customer requirements for the highest quality, user friendly inspection equipment. Paint Test Equipment is the partner of choice.



**Paint Test Equipment**

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