

## Dust Tape Test



### Ascott Analytical Equipment Limited

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Corrosion Test Chambers

Testing climate resistance **to the limit**

## 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.

## Supply

Supplied in an industrial foam-filled Carrying Case with Dust Test Tape (60m roll), Dust Test Comparator and X10 Illuminated Magnifier.



## Ordering

T01-30465 Dust Tape Test. Includes Dust Test Tape & Dust Test Comparator

T01-30466 Spare Dust Test Tape 25mm (1"). 60m Roll

T01-30467 Spare Dust Test Comparator

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## Instructions

### Evaluation

At the beginning of each series of tests, remove and discard the first three turns of the Dust Test Tape from the roll.



Remove a piece of Tape about 250mm long. Holding the Tape only at the ends, press approximately 200mm of the freshly exposed Tape onto the blast-cleaned surface. Place your thumb across one end of the Tape and move the thumb along the Tape whilst maintaining a firm pressure and constant speed along the Tape. Carry out this procedure three times in each direction.

Remove the Tape from the blast-cleaned surface and place it on the Dust Test Comparator in a section which contrasts to the colour of the dust (adhere the Tape with thumb pressure).

Assess the quantity and size of dust particles on the Tape by visually comparing an area of the Tape with equivalent-sized areas of the pictorial references shown on the Comparator. Record the rating corresponding to the reference that is the closest match.

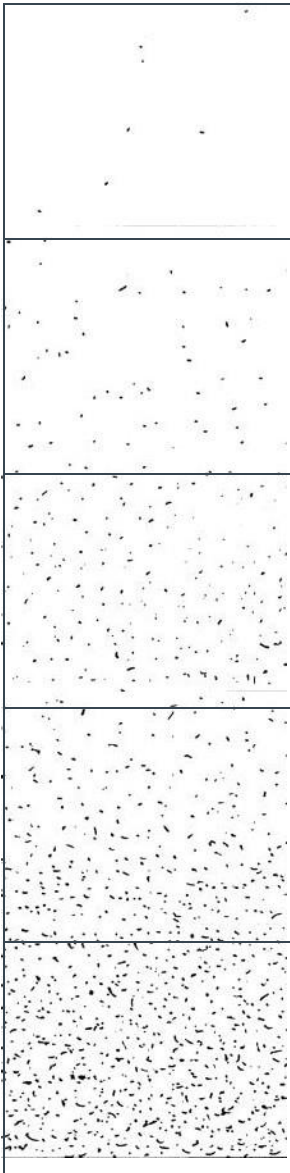
It is not unusual after carrying out the test to find that the Tape displays an overall discolouration, usually reddish-brown or black, sometimes with the presence of discrete visible particles, depending on the abrasive used.

The discolouration is caused by microscopic dust particles from the blast-cleaned surface (particles less than 50µm) that can cause low paint adhesion.

Report any overall discolouration as quantity rating 5, size class 1.

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## Dust Size Classes



1. Particles not visible under X10 magnification.

2. Particles visible under X10 magnification but not with normal or corrected vision (usually particles less than 50 $\mu$ m in diameter).

3. Particles just visible with normal or corrected vision (usually particles between 50 $\mu$ m and 100 $\mu$ m in diameter).

4. Particles between 0.5mm and 2.5mm in diameter.

5. Particles larger than 2.5mm in diameter.