TQC sheen

Machu Test Bath

VF8700

INDUSTRIAL PHYSICS

Protecting
Product Integrity

The TQC Sheen Machu Test Bath was developed to offer fast and realistic corrosion analysis on metal test panels according to Qualicoat specifications.

The test is made in a warm environment. To create this the test panels are placed in the container, which is placed in the Machu Test Bath.

The test panels need to be scratched crosswise with a 1 mm cutting tool before placing them in the warm moisture test chamber. The fluid content, temperature and remain time are specified.

Ideal for

Coating inspection and quality control in certified laboratories.

Standards

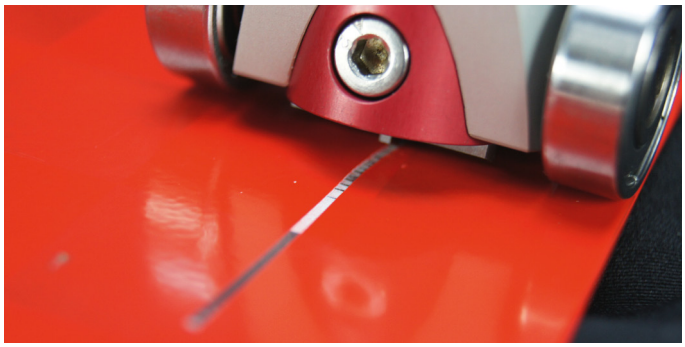
Qualicoat and QIB specifications.
(Qualitätsgemeinschaft für Industriebeschichtung)

Scope Of Supply

Machu Test Bath, SST steel top lid and perforated base plate and plastic container (4 litres).

Accessories:

Catalog Number	Article Description
VF8600	Machu Scratching Tool Basic (type CC2000)
VF8605	Machu Scratching Tool Professional (CC3000)
VF8620	Spare Plastic box for test panels
VF8625	Test panel holder



Technical Specification:

Bath inner dimensions:	302 x 240 x 150 mm 11,9 x 9,5 x 5,9 in
Bath outer dimensions:	338 x 280 x 260 mm 13,3 x 11,0 x 10,2 in
Bath Capacity:	11 liter
Heating capacity:	1200 W
Temperature:	+ 5–100 °C / 41–212 °F
Temperature accuracy:	± 0,1 °C
Temperature sensor:	PT100
Controls:	Jog shuttle dial (turn-push)
Display:	LCD display with illumination
Timer:	99:59 hr on and off delay
Material bath:	Stainless steel
Material housing:	Powder coated stainless steel
Lid:	Stainless Steel
Other:	• Lock function • Memory for temperature and delay times • Warning tone at sensor error and end of test
Power supply:	230 VAC 50/60 Hz

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Ease of use

The (powder) coated norm sized test panels or partial construction test pieces are scratched with 1mm X-cross (Andreas) cut up up to the blank base substrate. Then totally submerged in the plastic container in solution A or B at 37 °C . The plastic container is placed in the water bath and warmed au bain-marie like. The pieces under test are left for 24 hours in the solution, then washed with fresh water and dried.

For examination carefully peel away the loose parts of coating layer along the edges of the X cross with a Stanley knife. The dimensions of the largest undermined areas, measured from cutting edge to undermining is measured and recorded.

Specs Qualicoat: <0,5 mm both sides of cutting

Specs. GSB: dmax <= 1 mm

Fluid Composition:

Solution A for aluminum and steel

NaCl:	50 ± 1 g/l
CH_3COOH (glacial):	10 ± 1 ml/l
H_2O_2 (30%):	5 ± 1 ml/l
Temperature:	37 ° ± 1 °C
Test time:	48 ± 0,5 hour
The pH of the liquid:	3,0 – 3,3

Solution B for zinc coated steel or sendzimir

NaCl:	50 ± 1 g/l
H_2O_2 (30%):	10 ± 1 ml/l
The pH of the liquid:	6,0

Contact Details

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