



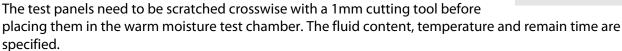
# TQC MACHU TEST BATH VF8700

DATASHEET

#### **PRODUCT DESCRIPTION**

TQC Machu test, accelerated corrosion test on test panels and construction parts 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.





#### **BUSINESS**

Coating inspection and quality control in certified laboratories

#### **STANDARDS**

**Qualicoat** and **QIB** specifications. (Qualitätsgemeinschaft für Industriebeschichting) Look up the appropriate standard for a correct execution of the test.

#### SCOPE OF SUPPLY

Machu Test Bath (11 litres), inclusive SST top lid and perforated base plate and plastic container (4 litres)

## **ACCESSORIES**







VF8600 TQC Machu Scratching Tool Basic (type CC2000) VF8605 TQC Machu Scratching Tool Professional (CC3000)

VF8620 Spare Plastic box for test panels

VF8625 Test panel holder for Machu bath 11 litres

### **METHOD OF USE**

The (powder)coated norm sized test panels or partial construction test pieces are scratched with 1mm X-cross (Andreas) cut up till the blank base substrate. They are totally submerged in the solution A or B of 37°C in the plastic container. Close the lid on the plastic container to prevent contamination with the liquid in the water bath. The water bath is filled with water up till the level in the plastic container. 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: < 0,5mm both sides of cutting.

Specs. GSB:  $d_{max} \le 1$ mm

#### Note!

- For each new test a fresh amount of test solution has to be made.
- The proposed liquids are less suited for stainless steel (304, 316 and duplex SST) products due to the
  high pitting potential. This is initiated by the high salt amount combined with the hydrogen peroxide.
  Therefore NEVER put the test solution, or any other solution in the bath itself. Always use a plastic
  container instead.

## **FLUID COMPOSITION**

Composition A for aluminum and steel

• The pH of the liquid is 3.0 - 3.3.

Composition B for coated zinced steel or sendzimir

• NaCl : 50 + 1g/l•  $H_2O_2(30\%)$  : 10 + -1 ml/l

• The pH of the liquid is 6.0.

After 24 hour a 5 ml/l hydrogen peroxide  $H_2O_2$  (30%) solution is added and the pH value is adjusted with glacial or caustic soda.

# **SAFETY PRECAUTIONS**

- Always make sure the instrument is connected to an earthed electric socket.
- Always make sure the instrument's power is turned off while adjusting any electric component
- NEVER put the test solution/any other solution in the bath itself. Always use a plastic container instead.

#### **DISCLAIMER**

The right of technical modifications is reserved.

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