

**TQC CYLINDRICAL BEND TEST 100MM INCL IMPERIAL MANDREL SET**  
SP1822

DATASHEET

**PRODUCT DESCRIPTION**

The TQC Cylindrical Bend Test is a very robust yet elegant testing instrument to indicate the elasticity, elongation and adhesion of a paint film at bending stress. The TQC Cylindrical Bend Test is designed to perform tests according to the latest standard ASTM D522, assessing the resistance of a coating, paint, varnish or related products to cracking and/or detachment from a surface when, subjected to bending around a cylindrical mandrel under standard conditions.

**BUSINESS**

Paint, Paint laboratory, Coating Industry, Galvanize

**STANDARDS**

ASTM D522

**FEATURES**

- Sturdy apparatus made of a combination of anodized aluminium and stainless steel.
- Ergonomic clamping device for test panels and large knob on bending arm easy and smooth bending.
- Large test panel size: max. 150 x 100 mm
- Luxurious wall mounted / desktop mandrel holder

**SCOPE OF SUPPLY**

- TQC Cylindrical Bend Test 100 mm
- Holder with set of 7 mandrels with a diameter of 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1"

**ACCESSORIES**

TQC Panels are available in a large variety of dimensions, materials and thicknesses. Use of TQC Test panels enhances reproducibility of physical and chemical tests. Each panel is equipped with a hole for hanging and handling.

Both standard test panels and special dimensions to customers specifications are available.

## SPECIFICATIONS

---

### Cylindrical Bend test

Dimensions: 140 X 170 X 340 mm  
Weight: 4150 gram  
Max. testpanel size: 150 X 100 mm  
Max. testpanel thickness: 1mm

### Desk Holder with 7 mandrels

Dimensions: 100 X 130 X 160 mm  
Weight: 2900 gram

### Mandrel

Diameter : 1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 1"  
Tolerance: up to 1/2 inch  $\pm$  0,05 mm; above 1/2 inch  $\pm$  0,1 mm

## USE

---

- Place and secure a test-panel in the apparatus, positioned against the mandrel.
- Fix it upright into the clamp.
- Pull the handle, and with a smooth movement, taking 1 - 2 seconds, make an even 180° bend.
- Release the test-panel from the test-apparatus and examine results immediately

## SPECIAL CARE

---

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.

## SAFETY PRECAUTIONS

---

- Make sure to keep fingers and other body-parts clear from the bending area when performing a test.
- Make sure all actions such as the clamping and bending are carried out without using any heavy forces
- Don't exceed the max. Panel thickness.
- Check the mandrel visually for mechanical damages or marks.

## DISCLAIMER

---

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.