



CYLINDRICAL MANDREL BEND TESTER

Cylindrical Mandrel Bend Tester is used for testing the flexibility of a coating, and resistance of a coating of paint, varnish or related product to cracking or detachment from a metal panel. It complies with GB/T 6742-2007 (equivalent to ISO 1519:2002)

The coated panel is bent through 180° over a period of 2 to 3 seconds, if there are no signs of failure a fresh coated panel is to be bent over the next smaller diameter mandrel, repeat the test over smaller diameters until failure is observed.

Pass/fail criteria

Upon establishing the smallest diameter mandrel that the panel can be bent over without failure and the next smaller diameter mandrel, where the coating fails, pass/failure criteria can be defined for quality control.



Standards

ISO 1519 type 2, JIS K 5600-5-1, AS/NZ 1580.402.1 – 2003 (2013)

Technical Specification

| ROD | THICKNESS | WIDTH | LENGTH | RECOMMENDED LENGTH |
|------|-------------|-------|-----------|--------------------|
| 2mm | ≤0.5mm | ≤60mm | 57 - 75mm | 73mm |
| 3mm | | | 58 - 76mm | |
| 4mm | | | 60 - 79mm | |
| 5mm | | | 61 - 81mm | |
| 6mm | | | 63 - 84mm | |
| 8mm | | | 66 - 89mm | |
| 10mm | | | 69 - 94mm | |
| 12mm | 72 - 99mm | | 105mm | |
| 16mm | 79 - 109mm | | | |
| 20mm | 85 - 115mm | | | |
| 25mm | 93 - 123mm | | | |
| 32mm | 104 - 134mm | | | |

Ordering Information

| Product Ref | Description |
|-------------|---------------------------------|
| WQ-II | Cylindrical Mandrel Bend Tester |