

**TQC AUTOMATIC WASHABILITY TEST**

AB5000, AB5005

DATASHEET

**PRODUCT DESCRIPTION**

TQC Automatic Washability Test to perform a Abrasion and washability test on coated panels to define the resistance of paint, varnish or related products to scratching, wearing and colour loss due to wet or dry abrasion. Simulating everyday wear from cleaning actions or general use.

The test is either used as a "pass / fail" test by testing to a specified number of strokes or defining the minimum number of strokes at which a coating fails by checking at regular intervals.

Many standards require dry or wet abrasion and scrub test to be performed to determine the quality of coating. Like the EN 13300 for example. This standard defines a quality ranking for interior coatings to wet abrasion.

The TQC Automatic Washability Tester is driven by a micro-step controlled electro motor which allows precise and steady speed and sinus wave form control. Operation is intuitive by means of a jog-dial switch and a multi-lingual operating menu on a large illuminated display.

The two integrated pumps allow the user to test two fluids simultaneously. Per pump two test beds are fed and can be controlled separately. This allows the TQC Automatic Washability Tester to be used both in coating industry and detergent industry. The adjustable tool carrier allows the user to safely perform test on a wide array of samples.

**BUSINESS**

Coating industry, industrial finishing, laboratory, detergent industry

**STANDARDS**

DIN 53778, ASTM D2486, ASTM D4213, ASTM D4828, ASTM D3450, ISO 11998, ASTM F1319, ISO 105X12, Renault D431010, GME 60269, ECCA T11, EN 13523-11, EN 60730-1 and EN 13300.

Look up the appropriate standard for a correct execution of the test.

**FEATURES**

- easy-to-use
- Multiple stroke speed
- Integrated fluid pumps incl. ramping
- 8 user programmable default setting
- Multiple languages
- Adjustable tool carrier
- Adjustable stroke length

## SCOPE OF SUPPLY

- Automatic Washability Test
- Two test beds
- Two sample clamps
- Tubing and fluid container set
- Power cord
- Manual

## ORDERING INFORMATION

**AB5000** TQC Automatic Washability Test 230V  
**AB5005** TQC Automatic Washability Test 110V

## ACCESSORIES

Article Number	Standard	Description
AB5010	DIN 53778	Wild Boar Brush, with Weight 60g / 0.13 lbs
AB5011	ASTM D2486	Nylon Brush, with Weight 60g / 0.13 lbs and Weight 100g / 0.22 lbs
AB5012	ASTM D4213-92 / D4828	Sponge with Weight 60g / 0.13 lbs and Weight 100g / 0.22 lbs
AB5013	ISO 11998	Abrasive pad (without weights)
AB5014	-	Weight 60g / 0.13 lbs
AB5015	-	Weight 100g / 0.22 lbs
AB5016	-	Set of 5 spare abrasives for Tool AB5013
AB5019	-	Set of 5 spare sponges for Tool AB5012
VF2179	-	Quadruplex applicator – dual reservoir



## SPECIFICATIONS

### Technical Data

Stroke speed: 1 – 60 strokes / minute\*  
 Stroke length: 20 - 300 mm / 0.8 - 11.8 inch\*  
 Max. panel width: max. 80 mm per channel  
 Max. panel length: max. 350 mm / 3.15 inch  
 Max. panel thickness: max. 35 mm / 1.4 inch in the middle of the sample track  
 \* Stroke speed and length achievable depend on the tools used.

### Dimensions and Weight

Depth x Width x Height: 650 mm x 350 mm x 350 mm / 25.6 inch x 13.8 inch x 13.8 inch  
 Net weight: approx. 35 kg / 77lbs

### Basic Unit

Power Supply: 115 – 230 V, 50 - 60 Hz  
 Power consumption: max. 80 Watt  
 Display: Blue Illuminated, graphic 100 x 35 mm / 0.22 x 0.08 inch, 193x64 pixels

Safety: Emergency Button, integrated Acoustic Alarm  
Function: Jog Shuttle knob by Rotation / Pushing

### Accuracy

Indenter Speed accuracy: +/- 1% of set speed  
Pump Speed accuracy: +/- 1% of set speed  
Stroke length accuracy: +/- 0.01 mm / 4 mil

### USE

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The AB5000 TQC Washability Test has a menu-driven interface and an integrated flush function. Check the manual for full details.

### SPECIAL CARE

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- 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.
- Never perform repairs or service to the instrument yourself. This should be done by TQC or selected distributors.

### SAFETY PRECAUTIONS

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- Always make sure the instrument is connected to an earthed socket.
- Maintenance and inspection should be carried out at the correct intervals
- Operating personnel should be informed before starting with maintenance or repair work
- Always make sure the instruments power is turned off and the instrument is not connected to a socket while adjusting any electrical component whenever maintenance, inspection or repair work is done.
- Do not open the instrument. In case of malfunction always consult the manufacturer.

### DISCLAIMER

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The right of technical modifications is reserved.

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