

# TQC Scrub Abrasion and Washability Tester

(AB6000, AB6010)

## Product Description

The TQC Scrub Abrasion and Washability Tester is used to test the resistance of paint, varnish or coatings to scratching, wearing, and color loss due to wet or dry abrasion, by simulating everyday wear from cleaning actions or general use. The test is either used as a "pass or 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. TQC Abrasion scrub/ washability Test to perform an 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.

### Flexible adaptation to many tests

The TQC Scrub Abrasion and Washability Tester allows for the most flexible adaptation of the wide range of scrub, abrasion and washability tests that are in use. First the base apparatus has to be selected from two models. The TQC Scrub Abrasion and Washability Tester Basic (Art. Nr. AB6010) without pumps for dry tests, and the TQC Scrub Abrasion and Washability Tester (Art. Nr. AB6000) with pumps for dry and wet tests. Each base unit is completely flexible and allows for easy exchange of the tools used for testing.

A variety of tests are possible, with just small modifications to make the device suitable for other tests. This modular system significantly decreases the costs for laboratories to comply to many standards.

**In order to choose the right parts we refer to the Custom Configuration Matrix and a Standards Configuration Table in this datasheet.**

### State-of-the-art-technology

The TQC Scrub Abrasion and 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.

Operating is very easy with the Triple i operating interface. This unique system guides the operator through the interface of TQC lab-machines. At each step of the multilingual operating menu the interface detects which buttons are active and indicates these by means of an illuminated red centre. This results in a very intuitive operating system which is enhanced with information on the machine's display.

## Features

- Preset range option
- Easy intuitive operating interface with Triple i Control (Intelligent Illumination Interface)
- Full color display
- Easy to update software
- Manual movement
- Compatible with a large range of accessories

## 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.

## Scope of Supply

### Standard supplied:

- 24V adapter + Power Cable
- Manual

### Only supplied with AB6000:

- TQC Scrub Abrasion and Washability Tester
- Tubing
- Fluid containers

### Only supplied with AB6010:

- TQC Scrub Abrasion and Washability Tester Basic

## Specifications

### Technical Data

Traverse speed:	1 - 60 cycles per minute
Traverse speed accuracy:	+ / - 1% of set speed
Stroke length:	20 - 300 mm / 0.39 - 11.81 in
Stroke length accuracy:	+ / - 0.01 mm
Pump flow rate:	0.0 - 3.0 ml per minute / 0.0 - 0.79 GPH

Max. panel width:	70 mm / 2.76 in
Max. panel length:	350 mm / 13.78 in
Max. panel height:	35 mm / 1.38 in

### Dimensions and Weight

Depth:	490 mm / 19.3 in
Depth with pumps:	530 mm / 20.87 in
Width:	640 mm / 25.2 in
Height:	235 mm / 9.24 in
Mass:	33 kg / 72.75 lbs

### Basic Unit

Power Supply:	100 - 240 V / 50 - 60 Hz
Power consumption:	max. 50 Watt
Display:	480 x 272 pixel TFT display
Control:	5-key navigation switch (Mouse Keyboard optional)
Menu languages:	English, Spanish, Chinese, Polish, German, French, Italian, Japanese, Russian, Turkish

## Ordering Information

**AB6000** TQC Scrub Abrasion and Washability Tester

**AB6010** TQC Scrub Abrasion and Washability Tester Basic

## Accessories

To ease choosing your parts a special TQC Scrub Abrasion and Washability Tester Ordering Matrix has been created.

## Use

The TQC Scrub Abrasion and Washability Tester has a Trippl i controlled running operation. Check the manual for full details.

## Special Care

- Always clean the instrument after use.
- 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

- 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

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.