elcometer®

Elcometer 1720 Abrasion & Washability Tester

Can be used in accordance with:
AS/NZS, ASTM, DIN, ECCA*, **EN, GME, ISO, JIS, PSA,** MIL*, FTMS*, P-R*, P-W*, TT*

These robust, reliable and extremely versatile machines have been designed for testing the abrasion, washability, brushability and resistance of a wide range of materials including paint, lacquers, inks, coatings, leather, wood, plastics, printed material, fabrics etc. The Elcometer 1720 is available with 4 stations, each station is separated by a water-tight gasket frame, allowing up to 4 dry or wet tests at any one time.

Features

- Made from anodised aluminium making it durable and robust
- All stations can be tested wet or dry
- The durable and robust design is stable under test allowing repeatable results, even at the fastest stroke speeds
- Rapid tool change
- Test up to 4 samples simultaneously
- Multi-lingual digital display
- User adjustable stroke length from 10 to 300mm
- Speed Cycles can be adjusted from 10 to 65 cycles per minute or set to the ISO Standard of 37 cycles /min
- Wide range of tools available, for testing flat and curved samples
- Available with or without an integrated liquid dosing pump

Meeting Standards

- With the wide range of tools available many Standards can be tested in one unit
- All units can be used in accordance with ASTM, DIN, EN and ISO Standards
- Easily adjustable to customers unique applications using the special tools
- Washability and abrasion testing on flat and curved samples up to 13mm thick

Interchangeable Tools

- All tools are interchangeable with the rapid tool change system, making the unit ideal for use in accordance with a wide range of Standards

User Adjustable

- Stroke length can be quickly and easily changed by the user to meet their specific requirements between 10 - 300mm
- Speed of carriage can be adjusted between 10 and 65 cycles per minute
- Cycle counter can be pre-set for a defined number of cycles from 1 - 32,760

Wet and Dry

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- All stations can be tested wet or dry
- Versions are available with or without an internal liquid pump
- Samples can be tested under wet or dry conditions

Economic
- 4 different characteristics can be tested simultaneously, resulting in significant time saving
- With its rapid tool change system setting up tests is fast and easy
- Easy sample placement allows quick change between tests

Standards

Can be used in accordance with:
AS/NZS 1580.459.1, ASTM D 2486, ASTM D 3450, ASTM D 4213, ASTM D 4488, ASTM D 4828, ASTM F 1319, DIN 53778-2:1983, ECCA T11*, **EN 13523-11, EN 233/C3.2-A, EN 233/C3.2-B, EN 233/C3.2-C, EN 60730-1-A, GME 60269, ISO 105-X12, ISO 11998, JIS K 5600-5-11, PSA D45 1010, ASTM D1792 - 06,** ASTM D2198 -02*, **ASTM D3206 - 08, ASTM D6279 - 03(2007),** MIL-C-3004*, MIL-C-46057*, MIL-E-11237*, MIL-STD-1334B*, MIL-P-15422C*, FTMS 141*, Method 6141*, FTMS 141*, Method 6142*, **FTMS Method 536/6701,** Federal Specification P-D-220D*, P-R-1760*, P-W-155C*, TT-P-26C(1)*, TT-P-29K*, TT-P-30E(1), TT-P-47G*, TT-E-505B*, TT-E-506K(1)*, TT-E-509C*, TT-C-535B(2)*, TT-C-555B(1)*

* Standards not in bold have been superseded but are still recognised in some industries.

Technical Specifications

Part Number	Description
K1720M204	Elcometer 1720 Abrasion Tester, 4 Station
K1720M304	Elcometer 1720 Abrasion & Washability Tester, 4 Station
Dimensions	550 x 460 x 320mm
Weight	33kg

Packing List

Elcometer 1720 Abrasion, Scrubbing & Washability Tester
250µm Metal Strip for ASTM D2486 Standard
Sample Drip Tray
2 x Glass Sheet
2 x Specimen Holding Frame
Set of 3 Tools for Instrument Set Up
3 x Mains Leads (UK & EUR) and Operating Instructions

Accessories – Elcometer 1720 Tools

Tool 1: Wild Boar Brush

Wild boar hairbrush and stainless steel brush holder. Total weight: 250g
Part Number: KT001720P003 / STANDARDS: DIN 53778-2:1983

Tool 2: Nylon Brush

Nylon bristle brush, stainless steel brush holder, 177g. Total weight: 454g
Part Number: KT001720P030 / STANDARDS: ASTM D2486

Tool 3: Sponge

Sponge and stainless-steel brush holder, 337g. Total weight: 508g
Part Number: KT001720P005 / STANDARDS: ASTM D4213:92, ASTM D4828

Tool 4: Sponge

Sponge and stainless-steel brush holder, 337g and 250g - gross weight 750g. Total weight: 750g
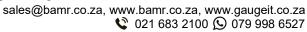Part Number: KT001720P073 / STANDARDS: ASTM D3450

Tool 5: Sponge / Abrasive

Sponge & stainless-steel holder abrasive pads - top and bottom & 76g. Total weight: 232g
Part Number: KT001720P029 / STANDARDS: ASTM D4213

Tool 6: Abrasive

Aluminium holder, abrasive pads (x5). Total weight: 135g

Part Number: KT001720P036 / STANDARDS: ISO 11998

Tool 7: Universal Material Clamp

Stainless steel holder allowing users to fix their own test sample or abrasive material.
Ideal for abrasion and wear of labels, textiles, ink etc. Part Number: KT001720P207
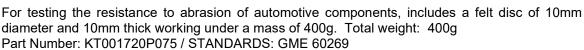
Tool 8: Linear Abrader "Crockmeter"

This tool is ideal for testing abrasion on both curved and flat surfaces and for testing colour fastness of fabrics. Supplied with a removable stainless-steel rod, test felt, textile fixing ring and a set of additional masses - 2x100g, 1x200g, 1x500g.
Total weight (excluding masses): 200g
Part Number: KT001720P074 / STANDARDS: ASTM F1319, ISO 105-X12, PSA D45 1010

Tool 9: Linear Abrader

For testing the resistance to abrasion of automotive components, includes a felt disc of 10mm diameter and 10mm thick working under a mass of 400g. Total weight: 400g
Part Number: KT001720P075 / STANDARDS: GME 60269

Tool 9B: Linear Abrader

Felt holder for 16mm diameter felt wool disc working under a mass of 900g. Total weight: 900g
Part Number: KT001720P075-2 / STANDARDS: EN 13523-11, ECCA T11

Tool 10: Curved Sample Tool

Height adjustable with an elbow joint for curved samples, this tool is ideal for testing abrasion resistance of both coatings and inks. Supplied with felt disc, rod for masses, 1x50g, 1x100g, 2x200g and 2x500g.
Part Number: KT001720N003 / STANDARDS: EN 60730-1-A

Additional Accessories

Part Number	Description
KT001720P004	Wild Boar Brush for Tool 1
KT001720P009	Nylon Brush for Tool 2
KT001720P006	Sponge (5) for Tools 3 & 4
KT001720P141	Sponge / Abrasive (5) for Tool 5
KT001720P037	Abrasive Pads (10) for Tool 6
KT001720P064	Abrasive Pads (100) for Tool 6
KT001720P051	Abrasive G 120 Sheets (4), for Tools 1 & 2
KT001720P008	25m Abrasive Roll for Tool 7
KT001720P062	Felt Disks (2) for Tool 10
KT001720N009	Non-Abrasive Scrub Medium - SC1
KT001720N002	Abrasive Scrub Medium - SC2
KT001720P016	50g Mass (To fit tools 1 - 8, 10)
KT001720P017	100g Mass (To fit tools 1 - 8, 10)
KT001720P018	200g Mass (To fit tools 1 - 8, 10)
KT001720P031	227g Mass (To fit tools 1 - 8, 10)
KT001720P019	500g Mass (To fit tools 1 - 8, 10)
KT001720P214	Glass Plate, 478 x 165mm
KT001720P012	ASTM Test Foil 250um (10mils)
KT001720P013	10m replacement Channel Gasket
K0004695M068	Scrub Test Panels*

* Request for the Elcometer 4695 Scrub Test Panels Leaflet for more information