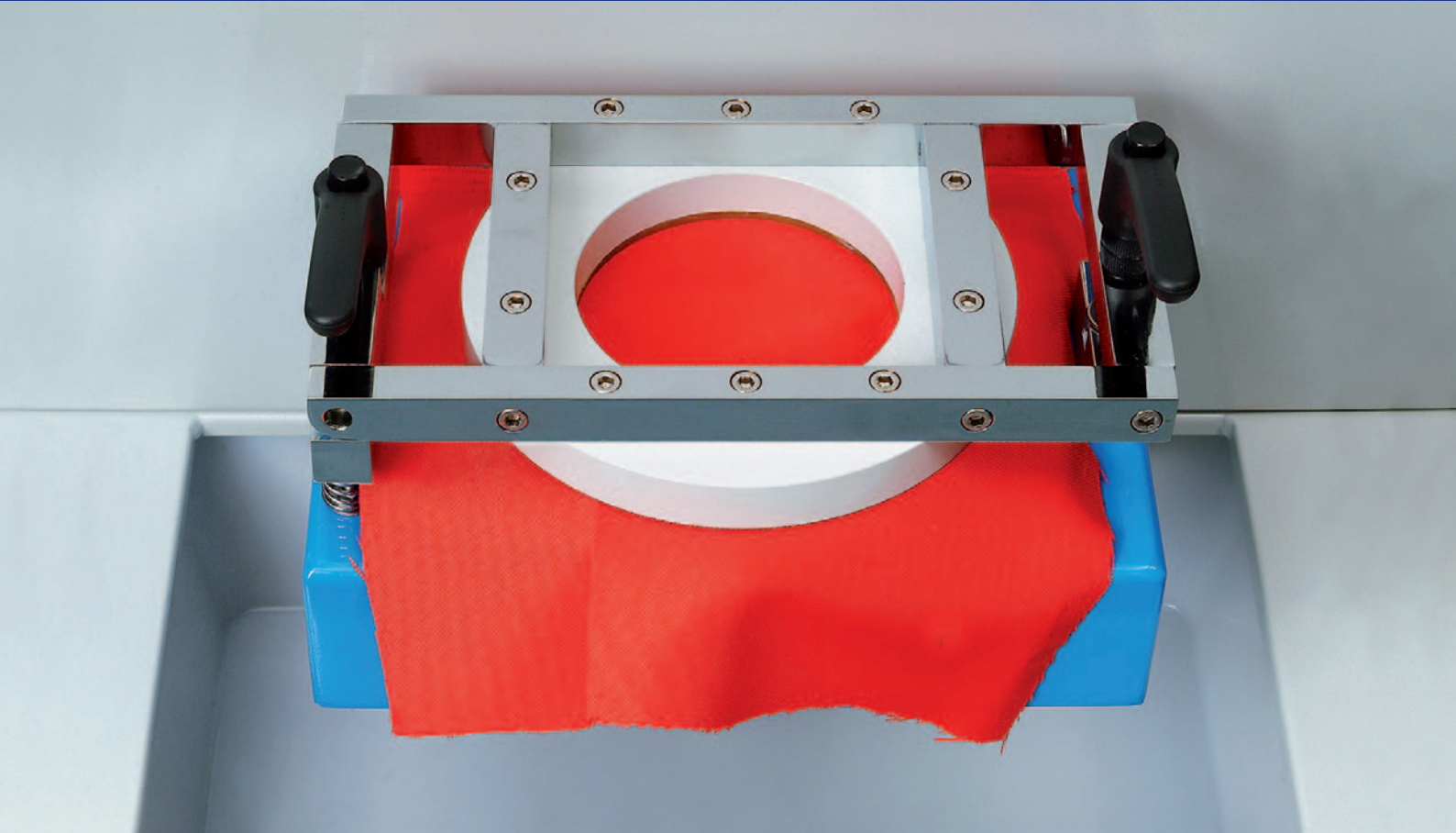


HYDROSTATIC HEAD TESTER - WATER PERMEABILITY TESTER

WATER PROOF



The **Water Proof** is conceived to analyse the water permeability under **static** and **dynamic** testing conditions of a wide range of textile materials. It indicates and displays the water column pressure at the moment in which the first water drops appear on the fabric's surface.

Suitable to:

- test and rate the water permeability limits of different materials
- establish the minimum pressure that induces water passage through the specimen
- measure the time (duration) of impermeability under a known, fixed, pressure

Different models available, up to 50 m water columns height.

WATER PROOF

CODE 3241C, CODE 3241D, CODE 3241E

Technical features:

- tests quickly and accurately water permeability and resistance to water penetration on a variety of materials, such as fabrics for garment, technical and coated fabrics, nonwovens, etc.
- conforms to both dynamic (EN ISO 20811 Standard), and static method (UNI 5123 standard).
- standard test area is 100 cm². Other test areas (10 cm², 26 cm² and 28 cm²) are available for testing small samples following wear/abrasion tests (optional).
- equipped with touch screen display, for the settings of the test parameters.
- built-in printer available (optional), for the printout of single test reports.
- electronic PLC for the storage of the last 10 tests. Software (optional) allows to export data to Excel, for further statistical elaboration.
- freely programmable water pressure speed setting making the Water Proof an ideal tool for R&D purposes.

Three available models:

- Code **3241C**, measuring range **up to 10 m/H₂O** (1 mm precision) of water column height
- Code **3241D**, hydrostatic head tester, measuring range **up to 20 m/H₂O** of water column height, endowed with two scales:
 - 1st scale: pressure 0-1 m/H₂O (1 mm precision); suitable for regular fabrics;
 - 2nd scale: pressure 0-20 m/H₂O (10 mm precision); suitable for performance fabrics, technical fabrics, coated fabrics, non-wovens, etc.
- Code **3241E**, equipped with high power pneumatic system, measuring range **up to 50 m/H₂O** (precision of **10 mm**) of water column height.

Models **3241D** and **3241E** are supplied complete with pneumatic clamping system for specimens. Available also for **3241C** (optional).



Code	Increasing speed water column cm/min	water column height		reading sensibility mm	Test area	
		m	mm		cm ²	Code
3241C	2, 10, 60 [continuous 1 – 100]	10	10.000	1	100	included
					10	3241C.6
					26	3241C.8
					28	3241C.10
3241D	2, 10, 60 [continuous 1 – 100]	1	1.000	1	100	included
		20	20.000	10	10	3241D.6
					26	3241D.8
					28	3241D.10
3241E	2, 10, 60 [continuous 1 – 100]	50	50.000	10	100	included
					10	3241E.6
					26	3241E.8
					28	3241E.10

OPTIONAL

Pneumatic sample clamping system (for 3241C)	Code 3241.22
Adjustable LED lamp, for a better vision during visual check of water dropping	Code 3241.4
Calibration report of pressure transducer	Code 3241.CC1
Calibration report of cup diameter	Code 3241.CC2
Test area 10 cm ²	Code 3241D.6
Test area 26 cm ²	Code 3241D.8
Test area 28 cm ²	Code 3241D.10
Built-in mini printer	Code 3241D.2
Software for data management	Code 3241D.12
CONTROL LAB: Laptop (Code 2532.150), or - as alternative - Personal Computer (Code 237.92); Software, Office for Windows (Code 250.6); Monitor (Code 250.300); Ink Jet Printer (Code 250.4); UPS - Uninterruptible Power Source (Code 2341.900)	

TECHNICAL FEATURES

- Digital display for water column pressure reading: mm/H₂O, cm/H₂O
- Water column Pressure increasing rate: 60 cm/min, 10 cm/min., 2 cm/min. (as per UNI/EN/AATCC/DIN/AFNOR/etc.) or continuously, from 1 up to 100 cm/min
- Max duration time of static test: 6.000 minutes (100 hours)
- Max sample thickness: 30 - 50 mm
- Manual air exhaust system enabling to fill with water the testing cup beneath the specimen, in order to prevent air bubbles
- Test cup water drain by ball valve
- Water reservoir capacity: 5 litres

REFERENCE STANDARDS

EN ISO 20811, BS 2823, BS 3424 part 26, ISO 1420-A, UNI 5123, UNI EN ISO 811:2018, UNI EN 13795-1, UNI 4818, ex-DIN 53886, ex-AFNOR G-07 057, BS 32823, BE EN 3321 3424, AATCC TM127:08, AATCC TM208, UNI EN 1734:1998, EN13859-1:2005, EN1928:2000, GB/T4744, FZ/T 01004, JIS L1092/K6328

DIMENSIONS / POWER SUPPLY

Weight: 80 kg
Dimensions: (L) 540 x (W) 540 x (H) 1700 mm
Power supply: 115 Vac, 60 Hz, or 230 Vac, 50/60 Hz, single-phase

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding



MESDAN S.p.A. Italy
+39 0365 653142
sales@mesdan.it
www.mesdan.com

