

# WATER TESTERS

Water Resistance and Repellency Testers

# Water Resistance and Repellency

SDL Atlas offers five core instruments to test a fabric's resistance to various forms of water penetration. These instruments are used in a variety of end use applications such as outerwear, medical PPE, shoes and heavy duty-use items like bags, outdoor furniture and tents.

- **Spray Rating Tester** - Surface wetting resistance
- **Impact Penetration Tester** - Water penetration resistance
- **HydroPro** - Resistance to static and dynamic water pressure
- **Rain Tester** - Water impact at different pressures
- **Bundesmann** - Rain fall on fabric subject to interior contact or motion

## Spray Rating Tester



### The best tool to quickly determine the surface wetting resistance of fabrics

The Spray Rating Tester determines the surface wetting resistance of fabrics. It is comprised of a metal framework allowing distilled water to be sprayed through a nozzle onto a test specimen at 45° located 150 mm below the nozzle. The appearance of the specimen is then compared against a photographic scale.

### Innovation made easy

- Precision spray nozzle
- Quick lock design for easy sample loading
- Durable metal frame made of high-grade 316 stainless steel to prevent rusting



Quick Lock Sample Holder



Open



Closed

#### STANDARDS:

ISO 4920	M&S P23	AATCC 22
Next 23	BS EN 24920	BS 3702
GB/T 4745	WSP 080.1.R4 (12)	IST 80.1 (01) 8.1

The Bundesmann provides a water repellency test for fabrics that are being contacted during use such as a rain jacket.

## Testing for Water Permeability

Samples are mounted over a cup and are rubbed from underneath during the test. Precision brass water drop formers provide simulated rain falling from a height of 150 cm. Samples mount onto holders outside of the tester and are then easily set in place on top of the cups.

• Drip tray

The built-in water recirculation system drastically reduces the total water consumption required during testing without taking any additional floor space.

• Water flow meter

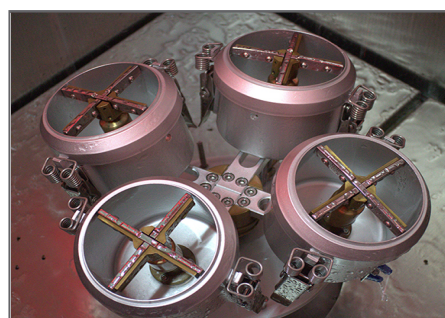
• Water filter



• 300 precision brass water drop formers



• Easy mount sample holders



• Four test stations inclined at 15°  
• Automatic sample wipers



Can be used with fresh water supply or recirculated water from storage tank

### STANDARDS:

BS EN 29865

DIN 53888

ISO 9865

GB/T 14577

NF G07-058

# HydroPro Hydrostatic Head Tester

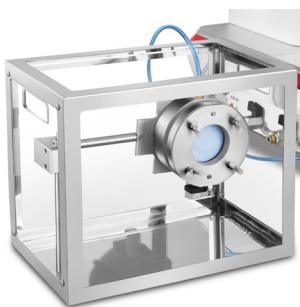
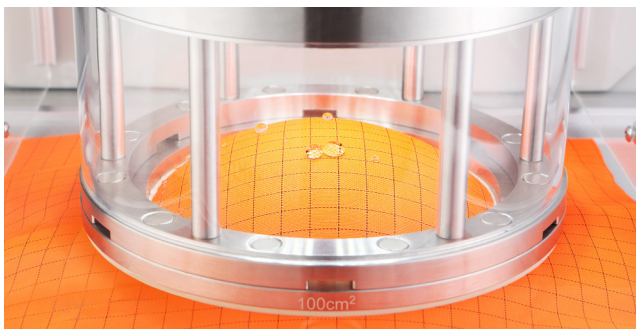


Designed to measure a fabrics' resistance to water, the **HydroPro** offers the best value hydrostatic head tester available

The HydroPro determines the waterproof properties of fabrics such as canvas, coated fabrics, hood fabric, tarpaulin, rain-proof fabrics and geotextiles.

The Fast Test function allows users to rapidly determine a failure point and perform other tasks during 80% of the standard test time. An alarm indicates fail pressure is close.

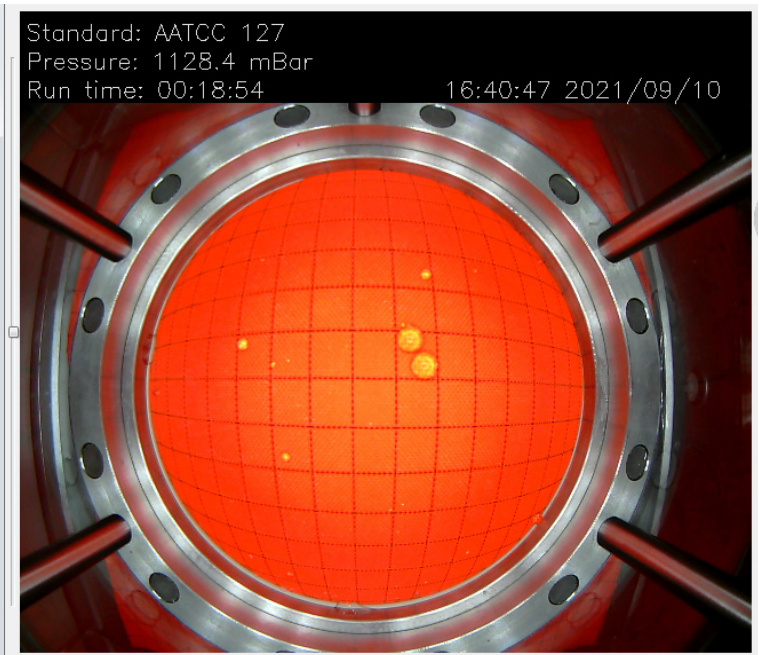
- Video recording and image capture show real time pressure for review after testing via computer software.
- Testing pressure up to 5 bar
- Pneumatic sample clamping to avoid slippage and leakage
- Automatic water filling and water level detecting
- Full Color Touch Screen Controller with preloaded routines for popular standards and custom programs
- Connects via WiFi to our exclusive RemoteAccess App which alerts the operator when the test is 80% complete
- LED lighting of sample area
- Clear safety shield
- 100 cm<sup>2</sup> test head included



Optional fixture of Blood Penetration Test for ASTM F1670, BS ISO 13994 and ISO 16603



Optional fixture of Pore Size Test for BS 3321



Video recording and image capture

## STANDARDS:

AATCC 127	AATCC 208	ASTM D751 proc B	BS 3424-26 29A	BS EN 20811	BS ISO 13994
Decathlon - DS-0006	Decathlon - DS-270	EN 343	EN 1734	FZT 01004-2008	GB/T 4744
ISO 811	ISO 9073-16	IST 080.4 (01)	IST 080.6 (01)	JIS L1092-A	JIS L1092-B
WSP 080.6.R4(12)					

*\*Standards for included 100 cm<sup>2</sup> test head. Other standards can be met with optional accessories.*

# Rain Tester



**The Rain Tester provides a water repellency test for fabrics with different intensities of water impact.**

Samples are mounted vertically while the simulated rain is sprayed horizontally. Samples are backed with a standard blotting paper that is weighed before and after the test. The Rain Tester provides precise control of the test through a color touch screen controller including water column height, water temperature, and test time.

## Features for innovation

- Color touch screen controller
- Programmed to perform AATCC and ISO tests
- Water temperature control per standard requirements
- Automatic time control
- Water collection and recirculation system
- Available with 1500 mm (60 in) or 2400 mm (94 in) column
- Automatic water level in temperature controlled water tank

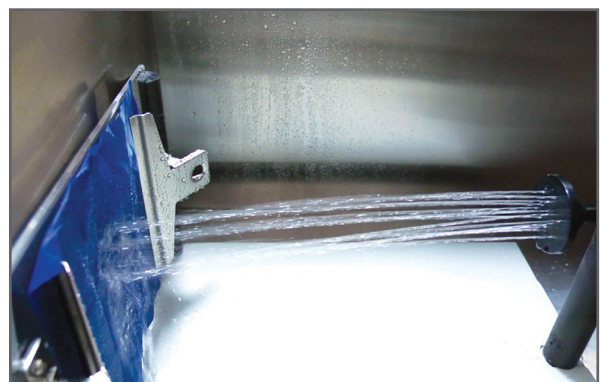
### STANDARDS:

AATCC 35

BS EN ISO 22958

GB/T 23321

**The SDL Atlas Rain Tester provides the most accurate test conditions for related standards.**



# Impact Penetration Tester



## For Testing Water Resistance: Impact Penetration

The Impact Penetration Tester evaluates the resistance of textiles to the penetration of water by impact, such as rain penetration. The stainless steel frame allows for repeatable and accurate test results.

The drip catcher can be rotated into place once the test is completed and keeps residual water from potentially contaminating future tests.

This Type II Design Impact Penetration Tester is specifically designed to meet AATCC TM42. SDL Atlas also supplies the specialized 6" x 9" Blotting Paper that the test requires.

## Used to perform critical safety testing for Personal Protective Equipment (PPE)

### STANDARDS:

AATCC 42

ISO 18695

IST 80.2 (01)

WSP 080.3.R4 (12)

AAMI PB70

## Consumables

Consumables are a critical part of many textile tests. SDL Atlas produces and distributes a complete line of consumables. Each batch is thoroughly tested to ensure conformity and consistency from batch to batch.

Our consumables offerings include:

- Multifiber
- Cork Liners
- Abradants
- Phenolic Yellowing
- Detergents
- Ballasts
- Crocking Fabric

## Calibration & Service

- UKAS calibration
- ISO calibration
- Service support
- Factory trained representatives
- SDL Atlas service technicians



SDL Atlas is a UKAS accredited calibration laboratory No. 0688. With fully trained technicians located in Europe, Asia, and North America, we are prepared to support our customers in maintaining their investments and their confidence in their testing instruments.

**Providing confidence in standard based testing through expertise and global partnering**



### SDL ATLAS LLC

3934 Airway Drive  
Rock Hill, SC 29732-9200, USA  
Telephone: +1 803 329 2110  
Facsimile: +1 803 329 2133  
Website: [www.sdlatlas.com](http://www.sdlatlas.com)

### SDL ATLAS LTD.

1B, Building B, JunXiangDa Mansion,  
No. 9 Zhongshan Yuan Road,  
Nanshan, Shenzhen, 518052, China  
Telephone: +86 (755) 2671 1168  
Facsimile: +86 (755) 2671 1337  
Website: [www.sdlatlas.com](http://www.sdlatlas.com)

### SDL ATLAS LTD.

3J, Garment Centre, 576 Castle Peak Road,  
Kowloon, Hong Kong  
Telephone: (852) 3443 4888  
Facsimile: (852) 3443 4999  
Website: [www.sdlatlas.com](http://www.sdlatlas.com)