



AirPerm

Air Permeability Tester

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Air permeability is a critical performance feature of air bags, active wear, parachutes, sails, tents, awnings, gas filters and vacuum cleaner bags. For apparel, air permeability is a major contributor to comfort and weather resistance of rainproof fabrics. For industrial and military uses, it can play a vital role in protection.

In each market, satisfying the demands of consumers and producers requires ways to accurately and consistently test material air flow. SDL Atlas offers the most versatile, accurate, and reliable air permeability tester on the market, allowing manufacturers to control production processes and validate their performance claims.

Versatile and Intuitive

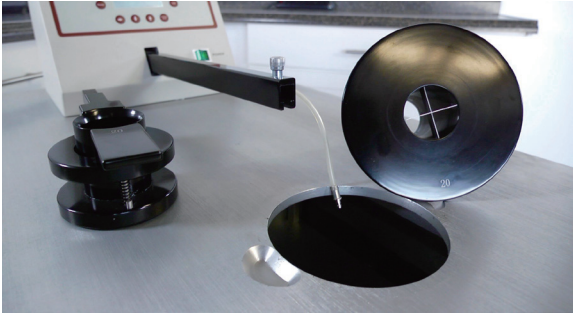
The AirPerm makes air permeability testing much more affordable while maintaining confidence that test results meet international and retailer standards. Designed to meet air permeability standards for paper, textiles, and non-wovens, the AirPerm provides quick, straightforward results in the unit of measure of your choice.

The SDL Atlas AirPerm automatically measures the flow of air through a given area of fabric under a set of controlled variables: a selected orifice, specific pressure drop, and designated test area. The instrument is suitable for most fabrics including woven, nonwoven, air bag fabrics, blankets, napped fabrics, knitted fabrics, layered, and pile fabrics. These fabrics may be untreated, heavily sized, coated, resin treated, or otherwise treated.

- Long, sturdy clamping arm over large test table top
- Single press clamping/test initiation
- Single press sample release
- Automatic measuring range selection
- Quick change of test heads
- Automatic test head detection
- 8 selectable units of measure
- Samples up to 8 mm thick



Features

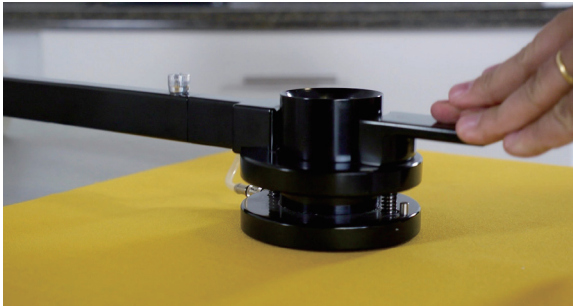
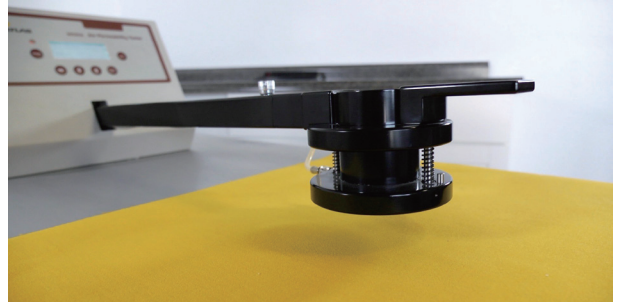


Automatic Pressure Range Sensor

Intuitive and easy to use, the AirPerm features an automatic ranging system that detects the size of the installed head and predetermines the appropriate pressure range required for accurate testing of a sample. The instrument's sensor eliminates the need for operator pretesting and manual adjustments.

Accommodating Table and Arm

The long arm and large table of the AirPerm allows large samples to be evaluated in multiple areas without cutting. Pressing the arm against the sample begins the test and unclamping the arm ends it.



Powerful Vacuum

The vacuum is both powerful and quiet. It accommodates a variety of test plates to suit every application and features easy calibration for daily checks.

Mobility and Compact Design

Heavy-duty casters and a self contained design make the AirPerm easy to transport from the laboratory to the production floor for on site testing or off site storage.



STANDARD	Test Head Selection					
	100200* 5 cm ²	100201 20 cm ²	100202 25 cm ²	100203 38 cm ²	100204 50 cm ²	100205 100 cm ²
adidas TM 6.08		●				
ASTM D737	●			●		●
BS 5636	●					
DIN 53887		●			●	●
EDANA 140.1		●			●	
EDANA 140.2		●			●	
GB/T 5453	●	●			●	●
ISO 9237	●	●			●	●
JIS L 1096-A				●		
TAPPIT251				●		
WSP 70.1	●	●	●	●	●	●
Dense Samples						●

*20 cm² Test Head comes standard. Others are optional. Black dots denote preferred test head, red denotes acceptable alternatives.

Specifications

Test Mode	Automatic	Test Head/Area	20 cm ² Standard, 5 cm ² , 25 cm ² , 38 cm ² , 50 cm ² , 100 cm ²
Test Pressure	10 - 2500 Pa	Sample Thickness	up to 8 mm
Air Flow	0.1 - 40,000 mm/s (5 cm ²)	Clamping Force	50 +/- 5 N
Rise Time	5 - 50 sec	Calibration Check Plate	For 20 cm ² (Standard)
Fall Time	3 sec	Display	LCD 80 x 28 mm
Total Measuring Time	10 - 58 sec	Displayed Test Results	Average dynamic air permeability and exponent of the air permeability curve in the selected test pressure range
Start Pressure	10 Pa	Data Output	RS232 connect to PC (with software - optional)
Lower Pressure Limit	10 Pa	Dimensions (WxDxH)	59 x 90 x 100 cm
Upper Pressure Limit	2500 Pa	Net Weight	80 kg
Accuracy	+/- 2%		
Test Units	mm/s, cfm, cm ³ /cm ² /s, l/m ² /s, l/dm ² /min, m ³ /m ² /min, m ³ /m ² /h, dm ³ /s		

Standard Configuration

- M021A - AirPerm 220V/110V, 20 cm² Test Head, 20 cm² Calibration Check Plate, Rubber Plate, Mains Leads with Multi-Pin Plugs, USB Drive with Manual, Fuse

Test Materials

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

Our test materials offerings include:

- Multifiber
- Cork Liners
- Abradents
- 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

SDL ATLAS LTD.

1B, Building B, JuanXiangDa Mansion,
No. 9 Zhongshan Park Road,
Nanshan, Shenzhen, 518052, China
Telephone: +86 (755) 2671 1168
Facsimile: +86 (755) 2671 1337
Website: 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