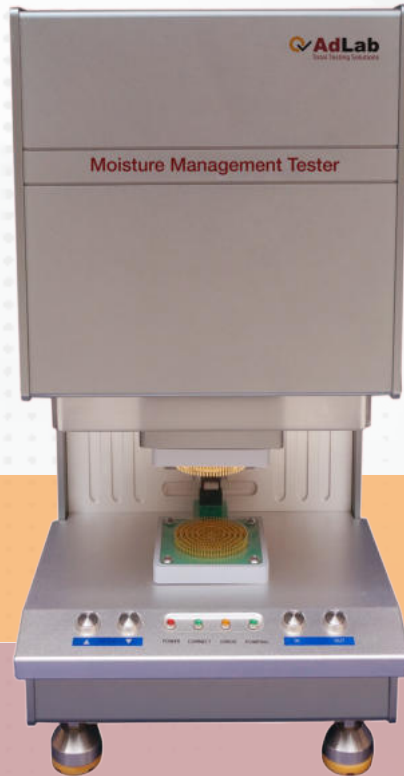




Moisture Management Tester
Model: ADL-MMT01

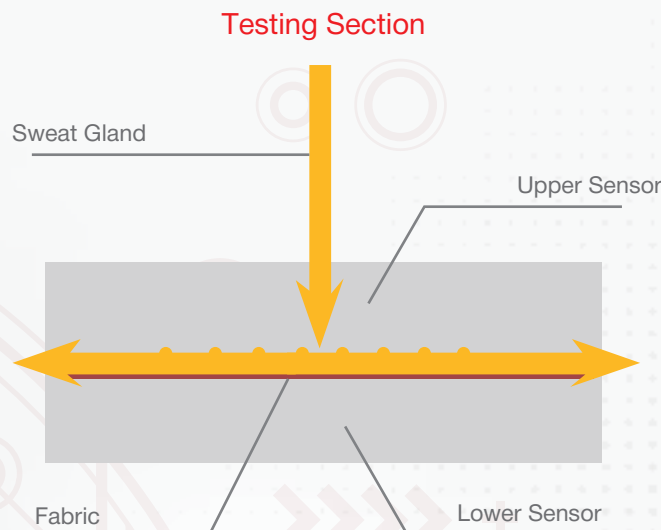


An Innovative Instrument for Innovative Fabrics

While performance fabrics require the typical standard tests of other fabrics, they also require an extra level of specialized testing to assure their engineered properties.

The MMTTest (Moisture Management Tester) provides this by measuring, evaluating, and classifying liquid management properties of fabrics.

AATCC Test Method 195 and GB 21655.2 were developed based on the MMTTest.



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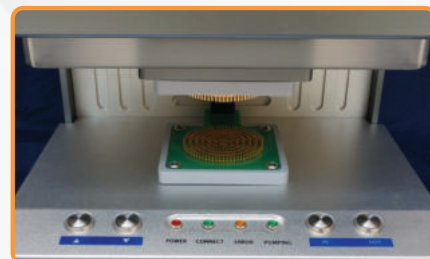
 20A Cuil Na Carriage, Ballymakeera, Co-Cork, Ireland (EU)

 info@adlabinstruments.com  www.adlabinstruments.com

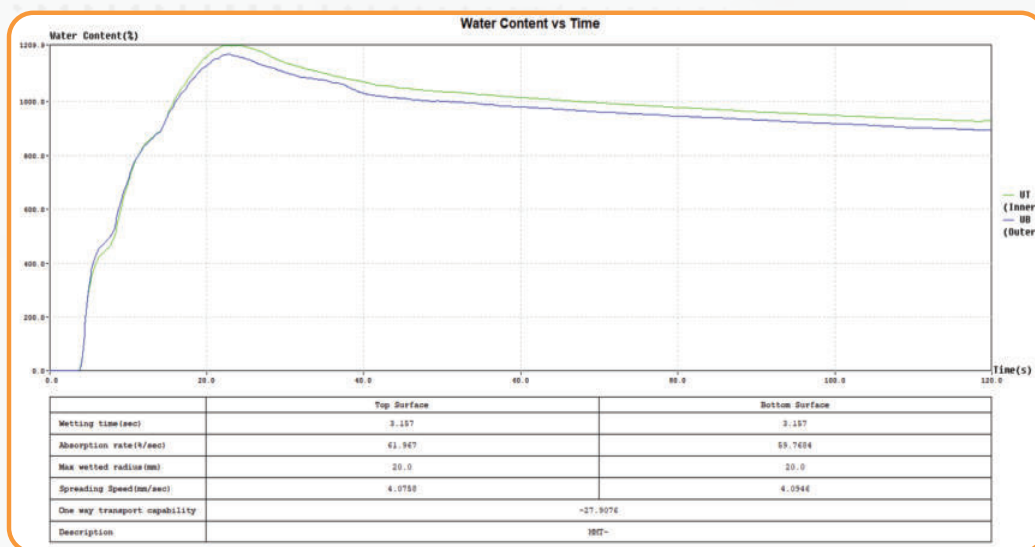
Moisture Management Tester Model: ADL-MMT01

To measure the dynamic liquid transport properties, a sample is placed horizontally in the instrument between the upper and lower sensors. These sensors are made of concentric rings of pins. A solution, representing perspiration, is dropped on the center of the upper facing (skin side) of the test sample. As the solution moves through and across the sample, the changes in electrical resistance are measured and recorded.

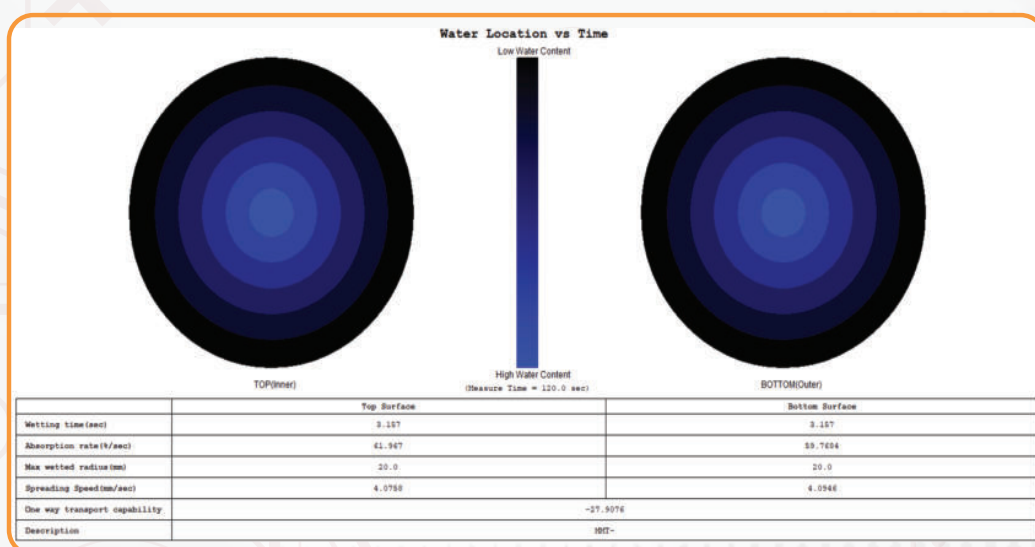
When saltwater drips into the fabric, it diffuses through the fabric, The probes of adjacent two rings can quickly detect changes in the resistance value of the fabric, Send resistance value data to computer analysis software, which calculates the test results and reports we need, The entire testing process takes 2 minutes.



Multiple Types of Test Reports



Water Content vs Time Chart, It can be observed that there is a difference in diffusion between the inner surface (Top) and the outer surface (Bottom) of the fabric.





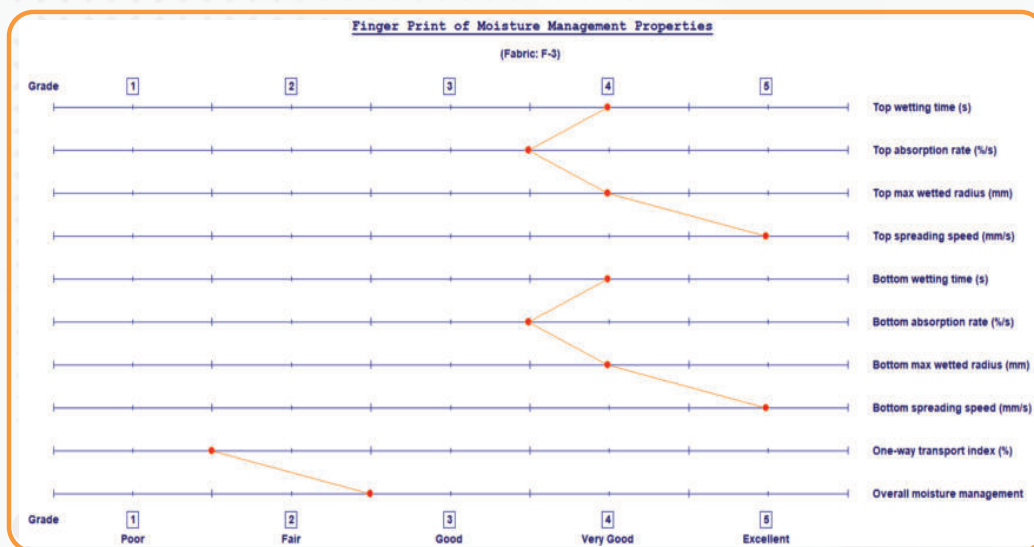
Moisture Management Tester Model: ADL-MMT01

Water Location vs Time, Use images to represent the location of water diffusion, with lighter colors indicating water content. You can click to play and simulate the dynamic process of water diffusion

MMTest Can Producing the Following Data

- Wetting Time for top and bottom surfaces
- Max Wetted Radius for top and bottom surfaces
- Accumulative One-Way Transport Capability
- Absorption Rate for top and bottom surfaces
- Spreading Speed for top and bottom surfaces
- Overall Moisture Management

Grade and List Reports



The test results can be graded according to each piece of fabric, or based on the average value. The grading standard can be AATCC or GB, and the grading results can help customers understand the fabric grade in a simple way.

	Wetting Time Top(sec)	Wetting Time Bottom(sec)	Top Absorption Rate(%/sec)	Bottom Absorption Rate(%/sec)	Top Max Wetted Radius (mm)	Bottom Max Wetted Radius (mm)	Top Spreading Speed (mm/sec)	Bottom Spreading Speed (mm/sec)	Accumulative one-way transport index(%)	OMMC
✓ F-1	3.312	3.406	83.7016	83.1588	20.0	20.0	3.928	3.8504	-52.5877	0.3857
✓ F-2	3.157	3.157	83.0558	81.0079	20.0	20.0	4.0428	4.0685	-21.9623	0.4228
✓ F-3	3.157	3.157	81.907	59.7684	20.0	20.0	4.0758	4.0946	-27.9076	0.4128
✓ F-4	3.157	3.313	82.3883	80.3554	20.0	20.0	4.0270	3.9541	-45.0939	0.3915
✓ F-5	3.234	3.234	81.8467	58.4361	20.0	20.0	4.0922	4.092	-63.1493	0.3845
✓ F-6	3.235	3.313	81.2628	59.4822	20.0	20.0	3.9692	3.979	-38.8455	0.4003
✓ F-7	3.235	3.079	59.8697	58.4783	25.0	25.0	4.0338	4.1259	-25.0938	0.4123
✓ F-8	3.157	3.235	58.9248	57.4458	25.0	20.0	4.2331	4.01	-33.7083	0.3999
✓ F-9	3.079	3.079	59.5819	56.2177	20.0	20.0	4.2583	4.2105	-42.2873	0.387
✓ F-10	3.313	3.407	81.501	57.6564	20.0	20.0	3.9872	3.9232	-55.5903	0.376
✓ F-11	3.156	3.235	57.8027	58.1572	20.0	20.0	4.0859	4.0022	-44.8218	0.3895
✓ F-12	3.078	3.157	58.8472	57.9422	25.0	20.0	4.3555	4.0864	-41.5187	0.3925
Mean	3.1892	3.231	80.8891	59.0089	21.25	20.4167	4.09	4.0336	-40.8794	0.3983
S.Deviation	0.0777	0.1119	1.8663	1.8978	2.2813	1.4434	0.1289	0.0979	12.5346	0.0138
CV	0.0244	0.0348	0.0307	0.0318	0.1064	0.0707	0.0315	0.0243	0.3086	0.0348

All test results are displayed in the test result list, which can be printed or saved to an Excel file.

Moisture Management Tester Model: ADL-MMT01

MMTest Can Identify 7 Types of Fabrics

Waterproof fabric
 Water repellent fabric
 Slow absorbing and slow drying fabric
 Fast absorbing and slow drying fabric
 Water penetration fabric
 Fast absorbing and quick drying fabric
 Water penetration fabric
 Moisture management fabric

Instrument Features

MMTest aluminum alloy oxide shell is more durable, with an open design that makes it convenient for users to place samples, There is no size requirement, you can test samples of 8cm * 8cm, and you can also test samples with a maximum size of 100cm * 20cm. The sensor has a magnetic suction structure, which is easy to remove for cleaning and maintenance.

Choose a stepper motor with adjustable speed for the pump fluid, The pump volume can be adjusted by the user to meet standard requirements, The operation panel is designed with a pump IN button, The liquid in the pipeline can be sucked into the tank to prevent salt from crystallizing in the pipeline.

The instrument has a self check function, which automatically checks whether the liquid has dripped onto the sensor, If the yellow error light flashes, Indicates the need to remove the tested fabric Indicates the need to remove the tested fabric or clean the test sensor.

Standards

AATCC 195-2017	GB/T21655.2-2019
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Product Specifications

- Size (Widthx Depth xHeight) - 280mmx420mmx420mm
- Weight - 26kg
- Interface - WiFi
- Power Supply - AC110V~220V 60/50Hz 1A
- Operation Temp & RH - 18°C to 29°C.80% maximum (non-condensing)
- Pump On Time - 20s
- Pump Volume - 0.22g Can be adjusted
- Test Solution - Conductivity16 ms +/- 0.2 ms

Applications

Quality control in fabric and garment manufacturing
 Research and development of new functional fabrics and garments
 Ranking of apparel fabrics by comfort factors related to moisture management
 Classification of fabrics according to dynamic liquid transport properties

Standard Accessories

MMTest
 Conductivity Meter
 Spare Silicon Tube
 MMTest Software

**Technical Data Subject to change without notice.*

AdLab is a globally recognized brand specializing in the manufacturing and supply of high-quality laboratory equipment and textile testing instruments. With over 15 years of experience, we are committed to delivering precision-engineered solutions that meet the needs of industries such as textiles, pharmaceuticals, research laboratories, and educational institutions. Our products are designed to enhance efficiency, accuracy, and reliability in scientific and industrial applications.

Our Skill

At AdLab, we combine expertise in precision engineering with advanced laboratory technology to create innovative and reliable testing instruments. Our team of skilled professionals continuously works on improving product designs, integrating the latest advancements in technology, and ensuring compliance with international quality standards. With a strong focus on research and development, we provide customized solutions that cater to the unique needs of our customers worldwide.

Our Products

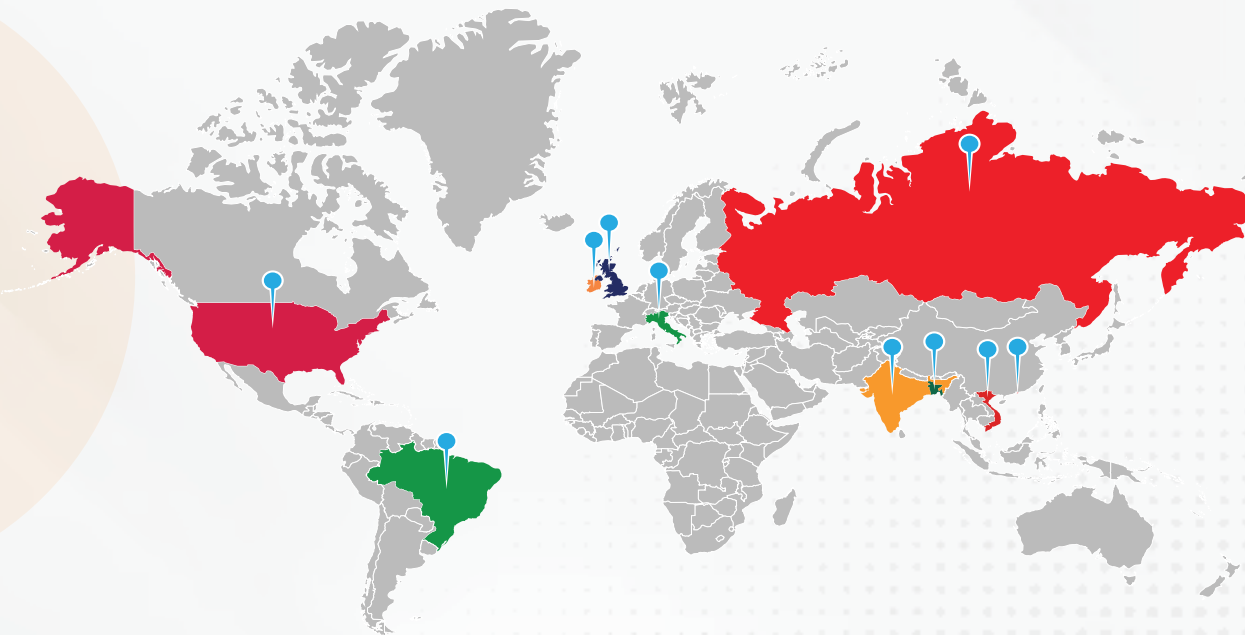
AdLab offers a wide range of high-quality laboratory and textile testing instruments, including Yarn & Fiber Testing Instruments, Laboratory Fume Hood Chambers, Ovens & Incubators, Water Baths, Textile Testing Instruments, Dyeing & Finishing Machines, Ceramic Testing, Tensile Testing, Washers & Dryers, Needle Detectors, and In-House Testing Equipment. Designed for precision and efficiency, our products ensure accurate testing and reliable performance across various industries.

Our Services

At AdLab, customer satisfaction is our top priority. We provide comprehensive support services to ensure the smooth operation of our equipment, including:

- ✓ 24/7 Technical Support Team – Our highly trained technical support team is available around the clock to assist with troubleshooting, maintenance, and operational guidance. Whether you need immediate assistance or expert advice, we are always ready to help.
- ✓ Installation & Training – We offer professional installation services and hands-on training to help users operate our equipment efficiently.
- ✓ Calibration & Maintenance – Regular calibration and maintenance services ensure that your laboratory instruments remain accurate and in optimal working condition.
- ✓ Customized Solutions – We provide tailored solutions to meet specific industry requirements, helping our clients achieve maximum efficiency in their operations.

Global Networks



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