

Atlas Weathering Services Group Accelerated Testing Laboratory



Comprehensive Expertise High Quality Results

In the world's largest ISO 17025 accredited commercial weathering testing laboratory, Atlas offers international customers a unique combination of comprehensive skills, high levels of expertise and a wide variety of weathering test methods and technologies – all in one location.

Our valued clients benefit from our laboratory's large number of high quality testing instruments to offer standard testing services at a moment's notice. Comprehensive solutions for complex testing needs can be achieved with the collaboration between Atlas'

calibration laboratory, R&D department, consulting services, and client education teams.

The laboratory is equipped with nearly 50 weathering test instruments, including xenon test instruments, solar simulation test chambers, fluorescent UV, and UVC test devices.

This lab also has a fully operational evaluations laboratory that offers instrumental color, gloss and visual evaluations performed by highly experienced Atlas technicians.



The latest weathering technology in one central location – the Atlas testing laboratory fact sheet

Laboratory surface area:	550 square meters
Current capacity:	Nearly 50 instruments for xenon-, fluorescent UV-, UVC- and solar simulation testing. We also have access to carbon-arc and corrosion testing, which are still required by many regulations.
Permanently available test area:	206.000 cm ²
Permanently available sample places:	2.036 sample places (145 mm x 65 mm) or 3.256 sample places (135 mm x 45 mm) + solar simulation

Instrument technology in the Atlas testing laboratory

Weathering Test Instruments	Test Area	Number of Sample Stations	Light Source
Weather-Ometer Ci5000	11000 cm ²	111 / 170	Xenon
Weather-Ometer Ci4400	7300 cm ²	77 / 113	Xenon
Weather-Ometer Ci4000	6500 cm ²	68 / 104	Xenon
Weather-Ometer Ci3000	2200 cm ²	20 / 29	Xenon
Xenotest Beta	4000 cm ²	48 / 56	Xenon
Xenotest Alpha	1300 cm ²	10 / 20	Xenon
Xenotest 440	2310 cm ²	11 / 22	Xenon
SUNTEST XXL+	3000 cm ²	8 / 35	Xenon
SUNTEST XLS+	1700 cm ²		Xenon
SUNTEST CPS+	560 cm ²		Xenon
SC1000 (solar simulation)	6000 cm ²		MHG
SunEvent SUN/600 (solar simulation)	3600 cm ²		MHG
SC340 (solar simulation)	2200 cm ²		MHG
UVC test instruments	2200 cm ²	48	UVC-254 nm
UV test instruments	2200 cm ²	48	UV-Fluorescence

A variety of services for comprehensive testing

Test areas:	Lightfastness and resistance to weathering testing, solar simulation, UV- and UVC-testing
Industries:	Automotive, paints and coatings, plastics, cosmetics, pharmaceuticals, textiles, furniture
Special test methods:	DIN 75220, Ford B0116-01, ASTM D7869 etc.
Specimens:	2D samples and 3D samples
Additional services:	Visual assessment of color, checking for cracks and blistering as well as other surface changes. Gloss measurements and colorimetric evaluation.

A selection of international standards in the Atlas testing laboratory

AATCC	TM 16E TM 16.3 TM 169
ASTM	C1442 C1501 D750 D904 D1148 D1670 D2565 D3424 D3451 D4101 D4303 D6695 G151 G154 G155
ISO	105-B02 105-B04 105-B06 105-B07 105-B10 3917 4892-1 4892-2 4892-3 11341 12040 16474-1 16474-2
SAE	J1885 J1960 J2412 J2413 J2527
OEM	Company-specific test requirements of all leading automotive producers

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