

# The Testing Laboratory of the Atlas Weathering Services Group



## **Comprehensive expertise for high quality results**

In the world's largest 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 – centrally in one place.

In addition to the laboratory's outstanding technical equipment, our customers benefit from the large test area, which enables standard testing to be done at short notice. Thanks to the link with the Atlas calibration

laboratory, our R&D department and our consulting and client education teams, we offer comprehensive solutions for complex testing needs.

The laboratory is equipped with over 40 Atlas weathering instruments including Ci5000, Ci4000, and Ci3000 Weather-Ometers, Xenotest Alpha+ and Beta+ instruments, Solar Climatic 1000 and 340 instruments, SUN-TEST (XXL+, XLS+ and CPS+) units and UVTest. 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 in facts**

Laboratory surface area: 550 square meters  
 Current capacity: more than 40 weathering instruments, UV tests and solar simulation testing  
 Permanently available test area: 19,2 m<sup>2</sup>  
 Permanently available sample stations: 1,838 sample stations (145 mm x 65 mm) or 2,643 sample stations (135 mm x 45 mm) + solar simulation

**Instrument technology in the Atlas testing laboratory**

Number	Atlas weathering test instrument	Test area	Number of sample stations	Light source
2	Ci5000 Weather-Ometer	11000 cm <sup>2</sup>	111 / 170	Xenon
3	Ci4400 Weather-Ometer	7300 cm <sup>2</sup>	77 / 113	Xenon
14	Ci4000 Weather-Ometer	6500 cm <sup>2</sup>	68 / 104	Xenon
5	Ci3000 Weather-Ometer	2200 cm <sup>2</sup>	20 / 29	Xenon
8	Xenotest Beta	4000 cm <sup>2</sup>	48 / 56	Xenon
2	Xenotest Alpha	1300 cm <sup>2</sup>	10 / 20	Xenon
2	SUNTEST XXL+	3000 cm <sup>2</sup>	8 / 35	Xenon
2	SUNTEST XLS+	1700 cm <sup>2</sup>		Xenon
2	SUNTEST CPS+	560 cm <sup>2</sup>		Xenon
1	SC1000 (solar simulation)	6000 cm <sup>2</sup>		MHG
1	SC340 (solar simulation)	2200 cm <sup>2</sup>		MHG
3	UV test instruments	2200 cm <sup>2</sup>	48	UV-Fluorescence

**A variety of services for comprehensive testing**

Test areas: Lightfastness and resistance to weathering testing, solar simulation, UV testing  
 Tests performed:  
 Industries: Automotive, paints and coatings, plastics, chemicals, pharmaceuticals, textiles, furniture  
 Special test methods: DIN 75220, Ford B0116-01, etc.  
 Specimens: 2D samples and 3D samples  
 Additional services: Visual evaluation of gray scale, cracking, blistering, gloss measurements, colorimetric evaluation of surfaces

**A selection of international standards in the Atlas testing laboratory**

AATCC	TM 16E TM 16.3 TM 169
ASTM	D750 D904 D1148 D1670 D2565 D3424 D3451 D4101 D4303 D7869 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 16474-3
SAE	J1885 J1960 J2412 J2413 J2527
OEM	Company-specific test requirements of all leading automotive producers

**Your contact person: Andreas Ruth, Laboratory Manager, Tel.: +49 6051 707-272, e-mail: atlas.lab-eu@ametek.com**

**Atlas Material Testing Technology GmbH**  
 Vogelsbergstraße 22  
 63589 Linsengericht-Altenhaßlau, Germany  
 www.atlas-mts.com