

Accelerated Weathering

The extreme weather conditions prevalent in parts of the United States and around the globe create a need for accelerated weathering tests.



Industry has a requirement to study the effects of severe environmental conditions on the performance of coatings and polymer components. Exova laboratories operate comprehensive accelerated weather exposure testing facilities with customized cabinets available to simulate varying service conditions, including UV light, high ambient temperature and rain spray.

Accelerated Weathering Services Include:

Accelerated weather testing cabinets using:

- Xenon arc
- Single and dual carbon arc
- Sunshine-carbon arc

Atlas Weather-Ometer™ weathering cabinets:

- Ci5000 (Xe)
- Ci65 (Xe), Ci35 (Xe)
- Fadometer (single carbon arc), CDMC (dual carbon-arc)
- UVCON & QUV (fluorescent UV-A & UV-B)
- SUGA Test Instruments: - Sunshine carbon-arc - Ozone exposure cabinets

Condensing Humidity cabinets

- Corrosion Studies
- Routine ASTM and NACE immersion, intergranular, pitting & stress corrosion cracking tests
- H₂S exposure
- Electrochemical corrosion tests
- Fluid resistance
- Non-standard corrosion tests
- Failure analysis

Corrosion Cabinets

- Salt Spray (3m² to Drive-in size)
- SO₂ Testing
- CASS Testing

Testing
Advising
Assuring

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