



ENVIRONMENTAL



Austest provides environmental product testing covering Vibration and Shock, Acoustic, Climatic, Ageing, Temperature and Humidity cycling, Salt Spray / Corrosion, Ingress Protection (IP) testing for dust and water and UV / Solar radiation testing. Industries we serve include;

- Defence
- Railway
- Medical
- Mining
- Automotive
- Aerospace
- Marine
- Road and transport
- Packaging

MECHANICAL TESTING

- Vibration – sine, random, SOR, fixed frequency
- Shock – classical and SRS
- Bump
- Packaged drop
- Impact - IK00 to IK10
- Pressure
- Altitude
- Custom tests – static load, fatigue, torsion, cyclic impact, luminaire vibration...
- Constant Acceleration

CLIMATIC

- Temperature
- Humidity
- Thermal shock

ACCELERATED AGEING

- Corrosion resistance (salt fog)
- UV & Solar Radiation covering UV-A and Broad Spectrum with Rain Simulation

INGRESS PROTECTION

- Water ingress – up to IPx8
- Dust ingress – up to IP6x

ACCOUSTICS

- Airborne noise
- Structureborne noise

DESIGN & CONSULTING

With an expert team of test engineers having more than 40 years of combined experience in environmental testing and reporting, we provide

- Test fixture design and manufacturing
- Consulting and advisory services
- Vibration measurements and diagnostics
- Whole body motion measurement and calculation





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UV AND SOLAR RADIATION

Austest Labs has 2 different UV chambers depending on your needs.

The short-wave UVA accelerated weathering tester is designed to test for polymer/plastics degradation such as gloss loss (chalking), yellowing, loss of strength, cracking, crazing and brittleness. The system can provide at the same time, condensation at 100%RH which can accelerate the weathering of paints and test for blistering.

The UVA tester can achieve an irradiance of 84.3 W/sq m over 300 - 400nm UVA spectrum and meets a huge number of test standards. For a reproduction of the full spectrum of sunlight, including ultraviolet, visible light and infrared, combined with water spray and humidity to determine fading and colour change, we suggest using our Xenon Arc Solar Radiation Chamber. This chamber is also best for testing indoor products, as it can be fitted with window glass filters. As this unit can accurately control humidity, it is also ideal for sensitive materials such as textiles and inks.

Our Xenon Arc broadband tester can achieve an irradiance of 83 W/sq m over 280-800nm broad spectrum using the Extended UV - Q/B filter.

The test standards are also wide ranging with full listings found in the environmental section of our website.

Some of our accredited standards;

- MIL-STD-167-1A
- MIL-STD-202
- DEF STAN 00-35
- IEC/EN/AS 60068-2-6
- IEC/EN/AS 60068-2-27
- IEC/EN/AS 60068-2-64
- ASTM D4169-09
- IEC60255-21-1
- IEC60255-21-2
- IEC/EN 60068-2-14
- IEC/EN 60068-2-1
- IEC/EN 62262
- MIL-STD-810G
- MIL-STD-883
- IEC/EN 61373
- IEC/EN 50155
- ISTA 3A
- ISTA 2A
- ASTM D4728-01
- ISO 16750-3
- IEC/EN 60068-2-2
- IEC/EN 60068-2-30
- IEC/EN 60068-2-75
- AS/NZS IEC/EN 60529

ACCREDITED TESTING

Don't risk a product recall because your product or component wasn't tested correctly to the required standard. Accredited labs such as Austest Laboratories, represent the highest level of testing competence available and are independently audited by an accreditation body that is a signatory of the International Laboratory Accreditation Committee (ILAC).

Our Sydney, NSW Central Coast and Melbourne facilities are A2LA (the American Association for Laboratory Accreditation) accredited for a vast range of standards. Austest has chosen A2LA as our accreditation provider, giving our customers the widest possible global reach for acceptance of accredited reports. A2LA has accredited more than 2000 organisations and is a signatory to several multilateral mutual recognition arrangements including the International Laboratory Accreditation Cooperation (ILAC), the Asia Pacific Laboratory Accreditation Cooperation (APLAC), and the InterAmerican Accreditation Cooperation (IAAC).

A2LA and NATA (National Association of Testing Authorities) are both signatories to the ILAC and APLAC MRA's for mutual acceptance of test data and reports. How can you tell if a report is accredited? An endorsed/accredited report will usually carry the endorsement logo of their accreditation body and usually include the ILAC logo.

This report is issued within the scope of A2LA accreditation #2765.02.

Accredited for compliance with ISO / IEC 17025

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