

Accelerated Life, Reliability and Environmental Testing Services

DES Can Test to Many Specifications

Including:

ASTM, Custom Specifications, IATA, IEC, IPC-SM-785 & IPC-9701, JEDEC, MIL-STD's including MIL-STD-167, MIL-STD-202, & MIL-STD-810, RTCA/DO-160, and SAE

Thermal Shock

Extreme Air to Air Thermal Shock Testing. Capable of performing specifications MIL-STD-883, MIL-STD-202, and JEDEC 22-A104

Equipment Capabilities:

- Temperature range from -73°C to +200°C (-100°F to +400°F)
- Dual compartment chamber with moving carriage to shuttle between hot and cold chambers
- Transfer between hot and cold chambers completed in seconds

Temperature and Humidity

Typical Tests Include:

Temperature & Humidity, High Temperature, Low Temperature and Temperature Cycle Testing

Equipment Capabilities:

- Multiple temperature & humidity test chambers
- Temperature range from -70°C to +180°C (-95°F to +356°F)
- Temperature rate of change up to 20°C/minute
- Low and high humidity Ranges from 10°C & 10% to 85°C & 98%
- Oven capable of +400°C (750°F)



HAST

HAST (**H**ighly **A**ccelerated **S**tress **T**est) reduces the time it takes to complete humidity testing by increasing temperatures above 100°C and increasing the atmospheric pressure.

Equipment Capabilities:

- Maximum Temperature 160 °C (320 °F)
- Controlled Humidity from 50% to 100%
- Maximum Pressure of 56 psig
- Chamber Interior of 14.4 x 24 inches

Rain and Freezing Rain (Icing)

Typical tests include MIL-STD-810 and RTCA/DO - 160.

Salt Fog or Salt Spray Testing

Typical tests include ASTM B117, MIL-STD-810, Telcordia and RTCA/DO - 160.

Equipment Capabilities:

- Controlled Temperature, Fog Rate, Salt Concentrations, pH, etc.
- Chamber has 30 cubic feet of internal space

Altitude (Vacuum) Testing

Chamber Capabilities:

- Altitude Range to 80,000 ft (0.8 in Hg)
- Altitude combined with hot and cold temperatures

Solar and Weathering Testing

Capable of Testing both Flat and 3-Dimensional Parts

Equipment Capabilities:

- Outdoor and Indoor Simulations
- UV, Visible, and Infrared Spectrums
- Temperature and Humidity Control
- Water Spray to simulate rain or dew

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