Accelerated Life, Reliability and Environmental Testing Services

DES Can Test to Many Specifications Including:

Thermal Shock

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 (Highly Accelerated Stress Test) 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

Delserro Engineering Solutions provides engineering and testing support to a variety of industries including Military, Aerospace, Telecommunication, Transportation, Medical, Industrial, and Consumer on products ranging from artificial heart systems to complex military systems. We will customize our services to fit your needs and work closely with your personnel over the entire course of the project. Our goal is to exceed your expectations every step of the way. Every day we provide customers with value-added solutions that translate into competitive advantages and increased profits. Experience the difference DES can bring to your business today!

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