

## RoHS Accelerated Stress Testing (AST) Services



### The Challenge

Restriction of Hazardous Substances (RoHS) legislation has been implemented in a number of regions. Companies are responsible for ensuring their electrical and electronic equipment products must meet strict standards, extensive documentation requirements, and certain hazardous substances thresholds.

Manufacturers need to ensure that their products, parts, and components comply in order to be distributed and sold in regions with RoHS legislation. As companies take steps towards RoHS compliance, product changes could result in both product reliability and performance issues if not done correctly.

### The Solution

Intertek offers Accelerated Stress Testing (AST) Services to quickly and easily determine what effects material changes have on a product.

- **Failure Mode Verification Testing (FMVT)** reveals inherent weaknesses by exposing the design/prototype to a combined set of amplified environments and/or stresses
- **Multiple Environment Over Stress Testing (MEOST)** applies multiple stress levels to a product in a short period of time while simultaneously elevating those stresses towards two-thirds of the destruct limit to determine every failure mode possible
- **Highly Accelerated Life Testing (HALT)** subjects a product to increasing stress levels of temperature and vibration, rapid thermal transitions, and other stresses related to the operation of the product.
- **Highly Accelerated Stress Screen (HASS)** involves the development of a custom production screen to identify process defects in conjunction with results found from HALT.

The benefits of Intertek's Accelerated Stress Testing (AST) include:

- Identifying real failure modes and the root causes of these failures
- Increasing product quality by exposing failure modes that would have otherwise been overlooked
- Reducing development and testing time, the amount of tests and prototypes needed, and reducing the production costs of our customers

For more information on Intertek's RoHS services, please contact us today:

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