



SURFACE VEHICLE RECOMMENDED PRACTICE

J2100™

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Accelerated Environmental Testing for Bonded Automotive Assemblies

RATIONALE

This document covers technology, products, or processes for which technical expertise no longer resides in the owning committee.

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Documents

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Foreword—This Document has not changed other than to put it into the new SAE Technical Standards Board Format.

1. Scope—This SAE Recommended Practice defines conditions to which bonded assemblies can be exposed to simulate environmental aging. These recommendations are generally based on existing Original Equipment Manufacturer requirements at this time. (Environmental specifications used for this proposal were from General Motors, Ford, and Chrysler.) The substrate type, dimension, and number are described by the standard for materials being tested and should include control specimens which receive no environmental aging.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein.

2.1.1 ASTM PUBLICATIONS—Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM B 117—Method of Salt Spray (Fog) Testing

ASTM E 171—Specification for Standard Atmospheres for Conditioning and Testing Materials

3. Equipment—All temperatures are ± 2 °C and relative humidities (RH) are $\pm 5\%$ unless otherwise indicated.

3.1 Air circulating ovens capable of maintaining 88 °C and 204 °C.

3.2 Humidity cabinets (noncondensing preferred) capable of maintaining 38 °C/95 to 100% RH and 60 °C/85% RH.

3.3 Salt spray cabinet per ASTM B 117.

3.4 Low-temperature cabinet capable of maintaining -30 °C.

3.5 Deionized water bath capable of maintaining 60 °C.