



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096

AMS 2361A

Superseding AMS 2361

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ELEVATED TEMPERATURE TENSILE PROPERTIES OF CASTINGS

1. **SCOPE:** This specification establishes a procedure for designating minimum elevated-temperature tensile property requirements of castings by means of this AMS number and a series of dash numbers.
2. **APPLICABLE DOCUMENTS:** The following publications form a part of this specification to the extent specified herein. The latest issue of Aerospace Material Specifications (AMS) shall apply. The applicable issue of other documents shall be as specified in AMS 2350.
 - 2.1 **SAE Publications:** Available from Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096.
 - 2.1.1 **Aerospace Material Specifications:**

AMS 2350 - Standards and Test Methods
 - 2.2 **ASTM Publications:** Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

ASTM E8 - Tension Testing of Metallic Metals
3. **TECHNICAL REQUIREMENTS:**
 - 3.1 **Tensile Test Specimens:** Shall be machined from a representative casting or castings after any heat treatment specified in the basic material specification has been accomplished. Specimens shall be of standard proportions in accordance with ASTM E8 with 0.250 in. (6.35 mm) diameter at the reduced parallel gage section, except that if the thickness of the casting is insufficient to provide such specimens, they shall be of a smaller size proportional to the standard as agreed upon by purchaser and vendor.
 - 3.1.1 **Specimen Location:** When property requirements are designated by the procedure of this specification, the location(s) in the casting to which the designated property requirements apply shall be as shown on the purchaser's drawing and as follows:
 - 3.1.1.1 When the property-limit dash-number designations of 3.2 apply to a specific area or areas, the designation of 3.2 may be used alone or with the final two-letter designation "DR" to indicate that the drawing shows the location(s) from which specimens shall be taken.
 - 3.1.1.2 Property requirements for specimens from non-specific locations in castings may be designated as in 3.2, using one of the following two-letter suffixes as applicable:
 - AO = Requirements apply to all areas of the casting.
 - GR = Requirements apply to all areas except near gate, sprue, and riser locations.

READY TO USE

APR 1984

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