



AEROSPACE MATERIAL SPECIFICATION

AMS2372™**REV. J**

Issued 1970-11
Reaffirmed 2001-03
Revised 2026-01

Superseding AMS2372H

(R) Quality Assurance Sampling and Testing,
Carbon and Low-Alloy Steel Forgings

RATIONALE

AMS2372J results from a Five-Year Review and update of specification. The revision addresses composition reporting (see 3.3.5.1.1), adds strain rate requirements (see 3.3.5.1.2.3), adds impact (see 3.3.5.1.3) and fracture toughness testing including product size and invalidities allowance (see 3.3.5.1.4), and revises and clarifies retesting and resampling (see 3.3.6).

1. SCOPE

This specification covers quality assurance sampling and testing procedures used to determine conformance to applicable specification requirements of carbon and low-alloy steel forgings.

1.1 Quality assurance sampling and testing procedures for forging stock are covered by AMS2370.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (U.S. and Canada only) or +1 724-776-4970 (outside U.S. and Canada), www.sae.org.

AMS2370 Quality Assurance Sampling and Testing, Carbon and Low-Alloy Steel Wrought Products and Forging Stock

AMS2808 Identification, Forgings

AS7766 Terms Used in Aerospace Metals Specifications

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2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM A370	Mechanical Testing of Steel Products
ASTM E8/E8M	Tension Testing of Metallic Materials
ASTM E23	Notched Bar Impact Testing of Metallic Materials
ASTM E399	Plane-Strain Fracture Toughness of Metallic Materials

2.3 Definitions

Terms used in AMS are defined in AS7766.

3. TECHNICAL REQUIREMENTS

3.1 General Requirements

- 3.1.1 Omission from this specification of confirmatory tests of certain material properties or attributes controlled by the applicable material specifications does not relieve the producer of responsibility for furnishing forgings that conform in all aspects to the applicable material specification.
- 3.1.2 In the event of a conflict between requirements specified herein and requirements of a particular material specification, requirements of the material specification shall take precedence.

3.2 Responsibility for Tests

The producer of forgings shall supply all samples for the producer's tests and shall be responsible for performing all required tests. Results of such tests shall be reported to the purchaser as required by the applicable material specification.

3.3 Detail Requirements

3.3.1 Classification

For the purpose of clarifying test requirements, forgings shall be classified as shown in Table 1.

Table 1 - Classifications of forgings

Class	Description
I	Forgings supplied in the final heat-treated condition and requiring destructive testing for verification of specified mechanical properties.
II	Forgings supplied normalized, normalized and tempered, normalized and annealed, or annealed only that require testing to ensure conformance to specified mechanical properties after subsequent heat treatment.
III	Forgings supplied hardened and tempered to only a specified hardness.
IV	Forgings supplied normalized, normalized and tempered, normalized and annealed, or annealed only, e.g., carburizing grades, not subject to testing for specified mechanical properties, other than hardness, after final heat treatment.

3.3.2 Heat

A heat shall be all steel melted in a single furnace charge. For consumable electrode remelted steel, a heat shall be all consumable electrode remelted ingots processed from steel originally melted as a single furnace charge.