



AEROSPACE MATERIAL SPECIFICATION

AMS5622™/H900**REV. A**Issued 2025-02
Stabilized 2025-09

Superseding AMS5622/H900

Steel, Corrosion-Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings
16Cr - 4.0Ni - 0.30Cb - 4.0Cu
Consumable Electrode Remelted
Solution Heat Treated, Precipitation Hardened (H900)
(Composition similar to UNS S17400)

RATIONALE

AMS5622/H900A has been declared "STABILIZED" by AMS Committee F. This document will no longer be updated and may no longer represent standard industry practice. This document was stabilized because certain design and processing procedures may cause these products to become susceptible to stress-corrosion cracking.

NOTE: Previously, this document was issued in February 2025. The last technical update of this document occurred in February 2025. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to this specification, including exceptions listed on the certification. In many cases, the purchaser may represent a sub-tier supplier and not the cognizant engineering organization.

STABILIZED NOTICE

AMS5622/H900A has been declared "STABILIZED" by SAE AMS Committee F Corrosion and Heat Resistant Alloys and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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Full document details: SAE AMS5622_H900A

For more information on this standard, visit <https://www.sae.org/standards/content/AMS5622/H900A/>

Documents



Standard Sharing Hub

1. SCOPE

1.1 Form

This specification covers a corrosion-resistant steel product 8 inches (203 mm) and under in nominal diameter, thickness, or for hexagons least distance between parallel sides in the solution and precipitation heat-treated (H900) condition.

- 1.1.1 The aged product may be supplied directly by a producer or by another entity performing the functions of a producer as defined in AS7766. The latter can be accomplished by precipitation heat treatment of solution-treated material previously certified to AMS5622. The entity assuming responsibility for the aging operation is designated the producer of AMS5622/H900A.

1.2 Application

These products have been used typically for parts requiring corrosion resistance and high strength up to 600°F (316 °C) with good ductility and strength in the transverse direction in large section sizes, but usage is not limited to such applications.

- 1.2.1 Certain design and processing procedures may cause these products to become susceptible to stress-corrosion cracking after heat treatment. ARP1110 recommends practices to minimize such conditions.

1.3 Classification

Product covered by this specification is classified as follows:

Type 1 - Steel multiple melted using vacuum consumable electrode in the final melt.

Type 2 - Steel multiple melted using electroslag process in the final melt.

- 1.3.1 Unless a specific type is ordered, either type may be supplied.

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 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS2241	Tolerances, Corrosion- and Heat-Resistant Steel, Iron Alloy, Titanium, and Titanium Alloy Bars and Wire
AMS2759/3	Heat Treatment, Precipitation-Hardening Corrosion-Resistant, Maraging, and Secondary Hardening Steel Parts
AMS2759/11	Stress Relief of Steel Parts
AMS2761	Heat Treatment of Steel Raw Materials
AMS5622	Steel, Corrosion-Resistant, Bars, Wire, Forgings, Mechanical Tubing, and Rings, 16Cr - 4.0Ni - 0.30Cb - 4.0Cu, Solution Heat Treated, Precipitation Hardenable, Consumable Electrode Remelted
ARP1110	Minimizing Stress Corrosion Cracking in Wrought Forms of Steels and Corrosion Resistant Steels and Alloys
AS7766	Terms Used in Aerospace Metals Specifications

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
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2.3 Definitions

Terms used in AMS are defined in AS7766.

3. TECHNICAL REQUIREMENTS

3.1 Composition

Composition shall be in accordance with AMS5622.

3.2 Melting Practice

Melting practice shall be in accordance with AMS5622 as ordered.

3.3 Condition

Product shall be in accordance with AMS5622 and the following:

3.3.1 The product shall be supplied in the precipitation hardened (H900) heat-treat condition.

3.3.2 Bar shall not be cut from plate (see 4.3.3).