



AEROSPACE MATERIAL SPECIFICATION

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

AMS 5735J

Superseding AMS 5735H

Issued 6-15-52

Revised 12-15-74

UNS K66286

STEEL BARS, FORGINGS, TUBING, AND RINGS, CORROSION AND HEAT RESISTANT

15Cr - 26Ni - 1.3Mo - 2.1Ti - 0.30V

1800° F (982.2° C) Solution and Precipitation Heat Treated

1. **SUPERSEDING SPECIFICATION:** The requirements of this specification are embodied in the latest issue of AMS 5732, STEEL BARS, FORGINGS, TUBING, AND RINGS, 15Cr - 26Ni - 1.3Mo - 2.1Ti - 0.30V, Consumable Electrode Melted, 1800° F (982.2° C) Solution and Precipitation Heat Treated. The requirements of the latest issue of AMS 5732 shall be fulfilled whenever reference is made to this specification.

SAE Technical Board rules provide that: "All technical reports, including standards approved practices recommended, are advisory only. Their use by anyone engaged in industry or trade is entirely voluntary. There is no agreement to adhere to any SAE standard or recommended practice, and no commitment to conform to or be guided by any technical report. In formulating and approving technical reports, the Board and its Committees will not investigate or consider patents which may apply to the subject matter. Prospective users of the report are responsible for protecting themselves against liability for infringement of patents."

Copyright 1974 by Society of Automotive Engineers, Inc.

All rights reserved.



Reproduced By GLOBAL
ENGINEERING DOCUMENTS
Distributed under license from the IHS Archive, Division Of SAE
Under Royalty Agreement

Documents

Printed in U.S.A. Sharing Hub



~~CANCELLED~~

AEROSPACE MATERIAL

Society of Automotive Engineers, Inc.

TWO PENNSYLVANIA PLAZA, NEW YORK, N.Y. 10001

SPECIFICATION

AMS 5735H

Superseding AMS 5735G

Issued 6-15-52

Revised 5-15-73

STEEL BARS, FORGINGS, TUBING, AND RINGS, CORROSION AND HEAT RESISTANT

15Cr - 26Ni - 1.3Mo - 2.1Ti - 0.30V

1800° F (982.2° C) Solution and Precipitation Heat Treated

1. SCOPE:

- 1.1 Form: This specification covers a corrosion and heat resistant steel in the form of bars, wire, forgings, mechanical tubing, flash welded rings, and stock for forgings, flash welded rings, or heading.
- 1.2 Application: Primarily for parts such as turbine rotors, shafts, blades, bolts, dowels, and fittings, requiring high strength up to 1300° F (704° C) and oxidation resistance up to 1500° F (816° C).

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., Two Pennsylvania Plaza, New York, New York 10001.

2.1.1 Aerospace Material Specifications:

AMS 2241 - Tolerances, Corrosion and Heat Resistant Steel Bars and Wire and
Titanium and Titanium Alloy Bars and Wire

AMS 2243 - Tolerances, Corrosion and Heat Resistant Steel Tubing

AMS 2248 - Chemical Check Analysis Limits, Wrought Heat and Corrosion
Resistant Steels and Alloys

AMS 2350 - Standards and Test Methods

AMS 2371 - Quality Assurance Sampling of Corrosion and Heat Resistant
Alloys, Wrought Products except Forgings

AMS 2375 - Approval and Control of Critical Forgings

AMS 2808 - Identification, Forgings

AMS 7490 - Rings, Flash Welded, Corrosion and Heat Resistant, Austenitic
Steels, and Austenitic Type Alloys

- 2.2 ASTM Publications: Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia, Pennsylvania 19103.

ASTM A370 - Mechanical Testing of Steel Products

ASTM E139 - Conducting Creep, Creep-Rupture, and Stress-Rupture
Tests of Metallic Materials

ASTM E292 - Conducting Time-for-Rupture Notched Tension Test of Materials

ASTM E353 - Chemical Analysis of Stainless, Heat-Resisting, Maraging, and
Other Similar Chromium-Nickel-Iron Alloys

- 2.3 Government Publications: Available from Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120.

2.3.1 Federal Standards:

Federal Test Method Standard No. 151 - Metals; Test Methods

Reproduced By GLOBAL
ENGINEERING DOCUMENTS
With The Permission Of SAE
Under Royalty Agreement

