

NOTICE OF  
ADOPTION

ADOPTION NOTICE 1  
3 July 1992 for  
AS7467  
22 January 1991

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Society of Automotive Engineers, Inc.  
400 Commonwealth Drive  
Warrendale, PA 15096-0001

Title of Document: Bolts and Screws, Nickel Alloy,  
Corrosion and Heat Resistant, Forged  
Head, Roll Threaded, Stress Rupture Rated

Date of Specific Issue Adopted: 22 January 1991

Releasing Industry Group: Society of Automotive Engineers, Inc.

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FSC 5306

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400 Commonwealth Drive, Warrendale, PA 15096-0001

## AEROSPACE STANDARD

**SAE** AS7467

Issued 1991-01-22

Superseding AMS 7467A

Submitted for recognition as an American National Standard

### BOLTS AND SCREWS, NICKEL ALLOY, CORROSION AND HEAT RESISTANT Forged Head, Roll Threaded, Stress-Rupture Rated

FSC 5306

#### 1. SCOPE:

##### 1.1 Type:

This procurement specification covers aircraft quality bolts and screws made from a corrosion and heat resistant age hardenable nickel base alloy of the type identified under the Unified Numbering System as UNS N07718 and of 185 000 psi tensile strength at room temperature, with maximum test temperature of parts at 1200°F.

##### 1.2 Application:

Primarily for aerospace propulsion system applications where a good combination of tensile strength, stress-rupture strength, and resistance to relaxation is required for use up to approximately 1200°F.

##### 1.3 Safety - Hazardous Materials:

While the materials, methods, applications, and processes described or referenced in this specification may involve the use of hazardous materials, this specification does not address the hazards which may be involved in such use. It is the sole responsibility of the user to ensure familiarity with the safe and proper use of any hazardous materials and to take necessary precautionary measures to ensure the health and safety of all personnel involved.

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## SAE AS7467

## 2. REFERENCES:

## 2.1 Applicable Documents:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other documents shall be the issue in effect on the date of the purchase order.

2.1.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

## 2.1.1.1 Aerospace Material Specifications:

AMS 2645 Fluorescent Penetrant Inspection  
 AMS 2750 Pyrometry  
 AMS 5662 Alloy Bars, Forgings, and Rings, Corrosion and Heat Resistant  
 52.5N -19Cr -3.0Mo -5.1(Cb + Ta) -0.90Ti -0.50Al -18Fe,  
 Consumable Electrode or Vacuum Induction Melted, 1775°F (970°C),  
 Solution Heat Treated

## 2.1.1.2 Aerospace Standards:

AS1132 Design Parameters for Bolts and Screws, External Wrenching,  
 Unified Thread Inch Series  
 AS3062 Bolts, Screws, and Studs, Screw Thread Requirements  
 AS3063 Bolts, Screws, and Studs, Geometric Control Requirements

2.1.2 U.S. Government Publications: Available from Standardization Documents Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

## 2.1.2.1 Military Specification:

MIL-S-8879 Screw Threads, Controlled Radius Root With Increased Minor Diameter; General Specification For

## 2.1.2.2 Military Standards:

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes  
 MIL-STD-1312 Fasteners, Test Methods  
 MIL-STD-2073-1 DOD Materiel, Procedures for Development and Application of Packaging Requirements

2.1.3 ASTM Publications: Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM E 8 Tension Testing of Metallic Materials  
 ASTM E 21 Elevated Temperature Tension Tests of Metallic Materials  
 ASTM E 112 Determining Average Grain Size  
 ASTM E 139 Conducting Creep, Creep-Rupture, and Stress-Rupture Test of Metallic Materials