SAE Aerospace
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AEROSPACE MATERIAL SPECIFICATION

AMS 5406B

Issued	OCT 1982
Noncurrent	NOV 1995
Reaf. Noncur.	MAR 2001
Cancelled	APR 2007

Superseding AMS 5406A

Alloy Castings, Investment, Corrosion and Heat Resistant
63Ni - 8.0Cr - 10Co - 6.0Mo - 1.0Ti - 4.2Ta - 6.0Al - 0.015B - 0.03Zr - 1.2Hf
Vacuum Melted, Vacuum Cast
As Cast

RATIONALE

AMS 5406A has been designated cancelled because survey of aerospace users and producers determined that this product is not produced to this specification.

CANCELLATION NOTICE

This specification has been declared "CANCELLED" by the Aerospace Materials Division, SAE, as of April, 2007. By this action, this document will remain listed in the Numerical Section of the Index of Aerospace Material Specifications, indicating that it has been "CANCELLED".

Cancelled specifications are available from SAE.

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NONCURRENT NOTICE

This specification has been declared “NONCURRENT” by the Aerospace Materials Division, SAE, as of November 1995. It is recommended, therefore, that this specification not be specified for new designs.

“NONCURRENT” refers to those materials which have previously been widely used and which may be required on some existing designs in the future. The Aerospace Materials Division, however, does not recommend these as standard materials for future use in new designs. Each of these “NONCURRENT” specifications is available.

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1. SCOPE:

1.1 Form:

This specification covers a corrosion and heat resistant nickel alloy in the form of vacuum-melted, vacuum-cast investment castings.

1.2 Application:

Primarily for parts requiring good strength up to 1900°F (1060°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 SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2268	Chemical Check Analysis Limits, Cast Nickel and Nickel Alloys
AMS 2350	Standards and Test Methods
AMS 2362	Stress-Rupture Properties of Castings
AMS 2635	Radiographic Inspection
AMS 2645	Fluorescent Penetrant Inspection
AMS 2694	Repair Welding of Aerospace Castings
AMS 2804	Identification, Castings

2.2 ASTM Publications:

Available from American Society for Testing and Materials, 1916 Race Street, Philadelphia PA 19103.

ASTM E8	Tension Testing of Metallic Materials
ASTM E139	Conducting Creep, Creep-Rupture, and Stress-Rupture Tests of Metallic Materials
ASTM E192	Reference Radiographs of Investment Steel Castings for Aerospace Applications
ASTM E354	Chemical Analysis of High-Temperature, Electrical, Magnetic, and Other Similar Iron, Nickel, and Cobalt Alloys

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