SAE Aerospace
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# AEROSPACE MATERIAL SPECIFICATION

**AMS 5407B**

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

Superseding AMS 5407A

Alloy Castings, Investment, Corrosion and Heat Resistant
60Ni - 9.0Cr - 10Co - 12.5W - 1.0Cb - 2.0Ti - 5.0Al - 0.015B - 0.06Zr
Vacuum Melted, Vacuum Cast
As Cast

## RATIONALE

AMS 5407A 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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As Cast

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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Full document details: SAE AMS5407B

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 stress-rupture properties up to 1800°F (980°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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