

# AMS 4062 & Aerospace Aluminum: The Definitive Guide



## Critical Clarification: AMS 4062

AMS 4062 is a standard for **Low Alloy Steel**, NOT an aluminum alloy. This is a common point of confusion in aerospace and critical industries. Understanding this difference is vital for correct material specification.

## Focus on Aerospace Aluminum Alloys



### AMS 4026

**Composition:** Al (97.9%), Mg, Si, Cu, Cr.

**Tensile Strength:** 240 MPa

**Yield Strength:** 145 MPa

**Applications:** Aerospace structures requiring moderate to high strength.



### AMS 4066

**Composition:** Al, with significant Cu and Mn.

**Key Properties:**

- High strength
- Excellent thermal stability

**Applications:** High-performance aerospace components.



### 1100-H14 (Pure Al)

**Composition:** >99.6% Al

**Key Properties:**

- Moderate strength
- Superior corrosion resistance
- Excellent workability

**Applications:** Structural parts, chemical equipment.

**Important Note:** Occasionally misidentified under the AMS 4062 designation.

## The Importance of Accurate Material Knowledge

Precise understanding of material specifications like AMS 4062, AMS 4026, and AMS 4066 is non-negotiable in aerospace. It directly impacts safety, performance, and reliability. Always verify standards for critical applications.

# Aluminum Alloy Ams Guide

**ASM Handbook Committee**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the ASM Handbook Committee text.

## **Aluminum Alloy Ams Guide:**

**Aluminum Alloy Castings** John Gilbert Kaufman, Elwin L. Rooy, 2004-01-01 J G Gil Kaufman is currently president of his consulting company Kaufman Associates *Metallic Materials Properties Development and Standardization (MMPDS) :b MMPDS-09: Guidelines*, 2014 MMPDS 09 supersedes MMPDS 08 and prior editions of the MMPDS as well as all editions of MIL HDBK 5 Metallic materials and elements for aerospace vehicle structures handbook that was maintained by the U S Air Force The last edition MIL HDBK 5J was cancelled by the U S Air Force in March 2006 This document contains design information on the mechanical and physical properties of metallic materials and joints commonly used in aircraft and aerospace vehicle structures All information contained in this Handbook has been reviewed and approved using a standardized process The development and ongoing maintenance process involves certifying agencies including the FAA DoD and NASA and major material suppliers and material users worldwide P i McGraw-Hill Machining and Metalworking Handbook Ronald A. Walsh, 1999 Covering the latest equipment and most up to date technologies this revised compendium sets the standard in the field Filled with data and practices it s the only professional reference to encompass both machining and metalworking This benchmark reference gives professionals broad access to information on procedures tools standards and equations *Guidebook and Directory for the Metal Finishing Industries*, 2002 **Index of Specifications and Standards**, 1993 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 *Index and Directory of U.S. Industry Standards*, 1987 **Metals Handbook** American Society for Metals, 1982 **Thermophysical Properties Research Literature Retrieval Guides 1900-1980** V. Ramdas, C. R. Rodriguez, M. H. Wu, 1982-04-30

**Copper and Copper Alloys** Joseph R. Davis, 2001-01-01 This handbook is a comprehensive guide to the selection and applications of copper and copper alloys which constitute one of the largest and most diverse families of engineering materials The handbook includes all of the essential information contained in the ASM Handbook series as well as important reference information and data from a wide variety of ASM publications and industry sources National Metals Handbook American Society for Metals, 1964 **Aircraft and Missile Design and Maintenance Handbook** Charles A. Overbey, 1960 *Readers' Guide to Periodical Literature* Anna Lorraine Guthrie, Bertha Tannehill, Neltje Marie Tannehill Shimer, 1919 Metals Handbook, 1975 Handbook of Adhesives and Sealants Edward M. Petrie, 2007-01-02 The Handbook of Adhesives and Sealants 2nd Edition is primarily written to assist all those who have a permanent or temporary interest in adhesives and sealants For those new to the field the Handbook will provide a fundamental knowledge base of materials and processes as well as reasons why they work and more importantly why they don t work To the more experienced reader the breadth and thoroughness of the Handbook will provide a way to reduce time spent on trial and error development or on searching for the optimal recommended process For the academic the Handbook will connect the important theories regarding surface science polymeric materials and mechanics with practical products and applications of commercial

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