



AEROSPACE MATERIAL SPECIFICATION

AMS-QQ-A-225/9

REV. A

Issued 1997-07
Reaffirmed 2010-05
Stabilized 2014-07

Superseding AMS-QQ-A-225/9

Aluminum Alloy 7075, Bar, Rod, Wire, and Special Shapes;
Rolled, Drawn, or Cold Finished

A97075

RATIONALE

AMS-QQ-A225/9A stabilizes this document because equivalent technical requirements are contained in AMS4122, AMS4124, and AMS4186.

STABILIZED NOTICE

AMS QQ-A-225/9A has been declared "STABILIZED" by AMS Committee D. This document will no longer be updated and may no longer represent standard industry practice. This document was stabilized because it contains requirements that are no longer state of the art and are also contained in alternate documents that contain equivalent requirements. Previously this document was reaffirmed. AMS Committee D has never performed a technical update of this document. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to this specification; including exceptions listed on the certification. NOTE: In many cases, the purchaser may represent a sub tier supplier and not the cognizant engineering organization.

AMS Committee D recommends that the following technically equivalent specifications be used for future procurement. This listing does not constitute authority to substitute these specifications for the "STABILIZED" specification.

AMS4122	Aluminum Alloy Bars, Rods, and Wire Rolled or Cold Finished, and Rings, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (7075-T6, 7075-T651), Solution and Precipitation Heat Treated
AMS4124	Aluminum Alloy, Rolled or Cold Finished Bars, Rods, and Wire 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (7075-T73, T7351), Solution Heat Treated, Stress Relieved By Stretching, and Overaged
AMS4186	Aluminum Alloy, Bars, Rods, and Wire, Rolled or Cold Finished, 5.6Zn - 2.5Mg - 1.6Cu - 0.23Cr (7075-F), as Fabricated or when specified, Annealed (7075-O)

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The original Federal Specification was adopted as an SAE standard under the provisions of the SAE Technical Standards Board (TSB) Rules and Regulations (TSB 001) pertaining to accelerated adoption of government specifications and standards. TSB rules provide for (a) the publication of portions of unrevised government specifications and standards without consensus voting at the SAE Committee level, (b) the use of the existing government specification and standard format, and (c) the exclusion of any qualified product list (QPL) sections.

The complete requirements for procuring 7075 aluminum alloy bar, rod, wire, and special shapes described herein shall consist of this document and the latest issue of AMS-QQ-A-225.

1. SCOPE AND CLASSIFICATION:

1.1 Scope:

This specification covers the specific requirements for 7075 aluminum alloy bar, rod, wire, and special shapes produced by rolling, drawing, or cold finishing.

1.2 Classification:

- 1.2.1 Tempers: Bar, rod, wire, and special shapes are of the following tempers, as specified (See 6.2): O, T6, T62, T651, T73, or T7351 temper. Definitions of these tempers are specified in AMS-QQ-A-225.

2. APPLICABLE DOCUMENTS:

See AMS-QQ-A-225.

3. REQUIREMENTS:

3.1 Chemical Composition:

The chemical composition shall conform to the requirements specified in Table I.

Chemical Composition 1/

Element	Percent	
	Minimum	Maximum
Zinc	5.1	6.1
Magnesium	2.1	2.9
Copper	1.2	2.0
Chromium	0.18	0.28
Iron	-	0.50
Silicon	-	0.40
Manganese	-	0.30
Titanium	-	0.20
Other Elements, each	-	0.05
Other Elements, total	-	0.15
Aluminum	Remainder	

- 1/ Analysis shall routinely be made only for the elements specifically mentioned in Table I. If, however, the presence of other elements is indicated or suspected in the course of routine analysis, further analysis shall be made to determine conformance to the limits specified for other elements.