



AEROSPACE MATERIAL SPECIFICATION	AMS4031™	REV. K
	Issued 1962-06 Revised 2022-08	
	Superseding AMS4031J	
Aluminum Alloy, Sheet and Plate 6.3Cu - 0.30Mn - 0.18Zr - 0.10V - 0.06Ti (2219-O) Annealed or, When Specified, "As Fabricated" (2219-F) (Composition similar to UNS A92219)		

RATIONALE

AMS4031K results from a Five-Year Review and update of this specification with changes to update general agreement wording related to unauthorized exceptions (3.3.3, 3.6, 5.1.1, 8.4), update applicable documents (Section 2), and allow the use of the immediate prior specification revision (8.3).

1. SCOPE

1.1 Form

This specification covers an aluminum alloy in the form of sheet and plate 0.020 to 2.000 inches (0.51 to 50.80 mm), inclusive, in nominal thickness, supplied in the annealed (-O) condition (see 8.3). When specified, product shall be supplied in the "as fabricated" (-F) temper.

1.2 Application

These products have been used typically for parts requiring high strength up to 500 °F (260 °C) after heat treatment, but usage is not limited to such applications. May be welded and formed in the specified condition, but properties are improved by heat treatment.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS2355 Quality Assurance, Sampling and Testing, Aluminum Alloys and Magnesium Alloy, Wrought Products (Except Forging Stock), and Rolled, Forged, or Flash Welded Rings

AMS2772 Heat Treatment of Aluminum Alloy Raw Materials

AS7766 Terms Used in Aerospace Metals Specifications

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