



AEROSPACE MATERIAL SPECIFICATION

AMS4472™

REV. B

Issued 2011-06
Revised 2022-10

Superseding AMS4472A

Aluminum Alloy, Plate
4.0Cu - 1.0Li - 0.40Mg - 0.35Ag - 0.13Zr (2195-T34)
Solution Heat Treated and Stress Relieved
(Composition similar to UNS A92195)

RATIONALE

AMS4472B results from a Five-Year Review and update of this specification with changes to prohibit unauthorized exceptions (3.3.3, 3.6, 4.4.1, 5.1.1, 8.5), update applicable documents (Section 2), update elongation header (Table 2B), and allow the use of the immediate prior specification revision (8.4).

1. SCOPE

1.1 Form

This specification covers an aluminum alloy in the form of plate 0.500 to 2.250 inches (12.70 to 57.15 mm), inclusive, in nominal thickness (see 8.6).

1.2 Application

This plate has been used typically for aerospace structural parts requiring strength similar to that of 7475-T7351 but having 4% lower nominal density, but usage is not limited to such applications. Material is delivered in T34 temper and precipitation heat treated to obtain T82 temper by the end user.

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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For more information on this standard, visit
<https://www.sae.org/standards/content/AMS4472B/>

2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM B594	Ultrasonic Inspection of Aluminum-Alloy Wrought Products
ASTM B660	Packaging/Packing of Aluminum and Magnesium Products
ASTM B666/B666M	Identification Marking of Aluminum and Magnesium Products
ASTM G47	Determining Susceptibility to Stress Corrosion Cracking of 2XXX and 7XXX Aluminum Alloy Products

2.3 ANSI Accredited Publications

Copies of these documents are available online at <https://webstore.ansi.org/>.

ANSI H35.1/H35.1M	Standard Alloy and Temper Designation System for Aluminum
ANSI H35.2	Dimensional Tolerances for Aluminum Mill Products
ANSI H35.2M	Dimensional Tolerances for Aluminum Mill Products (Metric)

2.4 Definitions

Terms used in AMS are defined in AS7766.

3. TECHNICAL REQUIREMENTS

3.1 Composition

Shall conform to the percentages by weight shown in Table 1, determined in accordance with AMS2355.

Table 1 - Composition

Element	Min	Max
Silicon	--	0.12
Iron	--	0.15
Copper	3.7	4.3
Manganese	--	0.25
Magnesium	0.25	0.8
Zinc	--	0.25
Titanium	--	0.10
Zirconium	0.08	0.16
Silver	0.25	0.6
Lithium	0.8	1.2
Other Elements, each	--	0.05
Other Elements, total	--	0.15
Aluminum	remainder	

3.2 Condition

3.2.1 As Received (T34 Temper (refer to ANSI H35.1/H35.1M))

Solution heat treated in accordance with AMS2772 and stretched to produce a permanent set of at least 3%, but not more than 4%.