

AEROSPACE MATERIAL SPECIFICATION

SAE AMS4267

REV. A

Issued 2005-02
Cancelled 2012-01

Superseding AMS4267

Aluminum Alloy, Sheet (7055-O)
8.0Zn - 2.3Cu - 2.0Mg - 0.16Zr
Annealed

(Composition similar to UNS A97055)

RATIONALE

This specification addressed 7055-O annealed material that, as an acceptance test, had to demonstrate capability to meet 7055-T762 property requirements. Because 7055-T762 is no longer a registered temper, nor is annealed material capable of meeting that condition offered for sale, AMS4267 is cancelled without a superseding document.

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1. SCOPE:

1.1 Form:

This specification covers an aluminum alloy in the form of sheet.

1.2 Application

This product is used for formed structural parts, which will be subsequently heat treated and require high strength and good corrosion resistance, but usage is not limited to such applications.

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, 400 Commonwealth Drive, Warrendale, PA 15096-0001, or www.sae.org.

AMS 2355	Quality Assurance Sampling and Testing, Aluminum Alloys and Magnesium Alloys, Wrought Products, Except Forging Stock and Rolled, Forged, or Flash Welded Rings
AMS 2770	Heat Treatment of Aluminum Alloy Parts
AMS 2772	Heat Treatment of Aluminum Alloy Raw Material
ARP 823	Minimizing Stress-Corrosion Cracking in Wrought Heat-Treatable Aluminum Products
AS 1990	Aluminum Alloy Tempers

2.2 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, or www.astm.org.

ASTM B 660	Packaging/Packing of Aluminum and Magnesium Products
ASTM B 666/B 666M	Identification Marking of Aluminum and Magnesium Products
ASTM E 1004	Determine Electrical Conductivity using the Electromagnetic (Eddy Current) Method
ASTM G 34	Exfoliation Corrosion Susceptibility in 2xxx and 7xxx Series Aluminum Alloys (EXCO Test)

2.3 ANSI Publications:

Available from ANSI, 25 West 43rd Street, New York, NY 10036 or www.ansi.org.

ANSI H 35.2	Dimensional Tolerances for Aluminum Mill Products
ANSI H 35.2M	Dimensional Tolerances for Aluminum Mill Products (Metric)

3. TECHNICAL REQUIREMENTS:

3.1 Composition:

Shall conform to the percentages by weight shown in Table 1, determined in accordance with AMS 2355.

TABLE 1 - Composition

Element	min	max
Silicon	--	0.10
Iron	--	0.15
Copper	2.0	2.6
Manganese	--	0.05
Magnesium	1.8	2.3
Chromium	--	0.04
Zinc	7.6	8.4
Titanium	--	0.06
Zirconium	0.08	0.25
Other elements, each	--	0.05
Other elements, total	--	0.15
Aluminum	remainder	

3.2 Condition:

Annealed in accordance with AMS 2772 to the "O" temper. (see AS 1990).