



AEROSPACE MATERIAL SPECIFICATION	AMS4251™	REV. C
	Issued 1989-04 Reaffirmed 2011-11 Revised 2022-09	
Superseding AMS4251B		
Aluminum Alloy Sheet 2.7Cu - 2.2Li - 0.12Zr (2090-T83) Solution Heat Treated, Cold Worked, and Precipitation Heat Treated (Composition similar to U.S. A92090)		

RATIONALE

AMS4251C results from a Five-Year Review and update of this specification with changes to prohibit unauthorized exceptions (3.3.1.1, 3.6, 4.4.2, 8.6), update application (1.2), applicable documents (Section 2.1 titles (Tables 2A and 2B), and ordering information (8.7), and allow the use of the immediate prior specification revision (8.5).

1. SCOPE

1.1 Form

This specification covers an aluminum alloy in the form of sheet 0.040 to 0.249 inch (1.02 to 6.32 mm) in nominal thickness (see 8.7).

1.2 Application

Primarily for applications requiring the strength similar to 70750T6 sheet (refer to AMS4045) and 7.8% lower nominal density.

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

AS7760 Terms Used in Aerospace Metals Specifications

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