

AEROSPACE MATERIAL SPECIFICATION

AMS 4005D

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Cancelled JUN 2006

Superseding AMS 4005C

Aluminum Alloy Foil
5.0Mg - 0.12Mn - 0.12Cr (5056-H191)
Strain Hardened

UNS A95056

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1. SCOPE:

- 1.1 Form: This specification covers an aluminum alloy in the form of foil.
- 1.2 Application: Primarily for corrugated or expanded honeycomb core material for use in sandwich construction.

2. APPLICABLE DOCUMENTS: The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other documents shall be as specified in AMS 2350.

- 2.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096.

2.1.1 Aerospace Material Specifications:

AMS 2350 - Standards and Test Methods

AMS 2355 - Quality Assurance Sampling and Testing of Aluminum Alloys and Magnesium Alloys, Wrought Products (Except Forging Stock) and Flash Welded Rings

MAM 2355 - Quality Assurance Sampling and Testing of Aluminum Alloys and Magnesium Alloys, Wrought Products (Except Forging Stock) and Flash Welded Rings, Metric (SI) units

- 2.2 ASTM Publications: Available from ASTM, 1916 Race Street, Philadelphia, PA 19103.

ASTM B660 - Packaging/Packing of Aluminum and Magnesium Products

ASTM E252 - Thickness of Thin Foil and Film by Weighing

ASTM E345 - Tension Testing of Metallic Foil

3. TECHNICAL REQUIREMENTS:

- 3.1 Composition: Shall conform to the following percentages by weight, determined in accordance with AMS 2355 or MAM 2355:

	min	max
Magnesium	4.5	5.6
Manganese	0.05	0.20
Chromium	0.05	0.20
Iron	-	0.40
Silicon	-	0.30
Copper	-	0.10
Zinc	-	0.10
Other Impurities, each	-	0.05
Other Impurities, total	-	0.15
Aluminum	remainder	