



**Astrolite / Tricor Alloys  
California Division**  
201 Bernoulli Circle, Units B & C  
Oxnard, CA 93030  
Phone: 805-487-7131  
Fax: 805-487-9694

**Tricor Metals  
Ohio Division & Corp. H.Q.**  
3225 W. Old Lincoln Way  
Wooster, Ohio 44691  
Phone: 330-264-3299  
Fax: 330-264-1181

**Tricor Metals  
Texas Division**  
3517 North Loop 336 West  
Conroe, Texas 77304  
Phone: 936-273-2661  
Fax: 936-273-2669

**Tricor Metals  
Michigan Division**  
44696 Helm St.  
Plymouth, MI 48170  
Phone: 734-454-3485  
Fax: 734-454-7110

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## Astrolite® 5356 Aluminum **Astrolite (no AMS#)**

### Product Description:

Astrolite® 5356 Aluminum (also known as 5356-Al, 5356, AlMg5Cr (A), (AlMg5)) is a widely used welding alloy and can be classified as a general purpose type filler alloy. 5356 Aluminum is typically chosen because of its relatively high shear strength. 5356 Aluminum is recommended for joining 5005, 5050, 5052, 5083, 5086, 5154, 5356, 5454, 5456, 525, 5005, 6061, and 6063. Better post-anodizing color match, especially with 6000 series base alloys. 5356 is used as an alternative to 4043 for some applications, since it produces higher shear strength. It is a preferred match for the high Mg alloys such as 5083 and 5086.

Used in aerospace hardware, turbine blades, torque convertors, military armor plate, automotive truck panels, and bicycle frames.

The 5xxx series of aluminum alloys are susceptible to stress corrosion cracking (SCC) when the weld pool chemistry is greater than 3% mg and there is exposure to prolonged temperatures in excess of 149°F. Special alloys and tempers are often required to overcome this problem.

### Specifications:

AMS# (NA), AWS A5.10/A5.10M:1999 ER5356 R5356, UNS A95356, MSRR 9500/38, OMat 3/61 & 3/61A

### Nominal Composition (% by weight) & Mechanical properties:

Aluminum	Balance
Magnesium	4.5 – 5.6
Other interstitials	Unreported

Tensile (ksi)	45
Density (LBs/Cubic inch)	0.096

### Available Product Forms and Sizes, Packaging & Identification:

Straight Lengths	Spooled
AMS-2813 – Standard packaging AMS-2814 – Premium packaging <i>available upon request</i> Vapor barrier packaging <i>available upon request</i> . <i>1 LB and 5 LB bags available.</i>	Precision layer wound, with controlled cast and helix AMS-2813 – standard packaging AMS-2814 – Premium, vapor barrier packaging <i>available upon request</i> .
36" (914 mm) – Standard length. Other lengths <i>available on request</i> . <b>Flag tagged</b> on one end per AMS-2816. <i>Tagging of both ends available upon request.</i> <b>Color coding</b> to AMS-2819 or customer-specific specification is <i>available upon request</i> .	12" – Standard spool diameter Special spool sizes may be available upon request
<b>Diameters:</b> 0.030", 0.035", 0.047", 0.062", 0.094"	<i>Upon request special diameters and shapes may be available.</i>

\*\* The data and information contained in this pamphlet have been taken from open literature and is believed to be reliable. The information contained is intended to be used as a guide. Tricor Industrial Inc. does not make any warranty or assume any legal liability for its accuracy, completeness or usefulness. \*\*

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