



**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

www.astrolite.com

www.tricormetals.com

Astrolite[®] Alloy W

Astrolite 5786

Product Description:

Astrolite[®] Alloy W (also known as Hastelloy[®] W) is a solid-solution-strengthened super alloy that was developed primarily as a filler metal for welding of dissimilar alloys. It displays excellent dissimilar welding characteristics, and is widely used for that purpose in the aerospace gas turbine and chemical process industries. The properties of dissimilar weld joints made with alloy W are dependent on the alloys joined; but are generally acceptable for a wide variety of combinations. Alloy W is also used as a wrought alloy for a limited number of ring-type applications in older gas turbine engines.

Astrolite[®] UltraGrade™ surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips.

Astrolite[®] UltraGrade™ wire cleaning processes insure very clean wire surface for reliable welding performance.

Specifications:

AMS 5786, AWS A5.14 ERNiMo-3, UNS N10004, MSRR 9500/213, OMAT 333.

Nominal Composition & Mechanical properties:

Nickel	63 (Balance)
Molybdenum	23 - 26
Iron	4 - 7
Chrome	4 - 6
Cobalt	2.5
Manganese	1
Silicon	1
Other interstitials	Not reported

Tensile (ksi)	76
Density (LBs/Cubic inch)	0.325

Need [pricing?](#)

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> . Flag tagged on one end per AMS-2816. <i>Tagging of both ends available upon request.</i> Color coding to AMS-2819 or customer-specific specification is <i>available upon request</i> .	12" – Standard spool diameter <i>Other spool diameters; 4" & 8" diameter spools available on request.</i>
Diameters: 0.020", 0.025", 0.030", 0.035", 0.040", 0.045", 0.062", 0.078", 0.093", 0.125"	<i>Upon request special diameters and shapes may be available.</i>

DFARS Compliant

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