



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 263

Astrolite 5966

Product Description:

Astrolite[®] Alloy 263 (also known as Nimonic[®] C-263, Microfer 5120 CoTi, Haynes[®] 263, and Hastelloy[®] C-263) is an age-hardenable nickel-cobalt-chromium-molybdenum alloy designed specifically to combine good age-hardened strength properties with excellent fabrication characteristics in the annealed condition. It is used in both aircraft and industrial turbine engine applications including (low-temperature) combustors, transition liners, and some ring components.

Its strength at elevated temperatures is not quite as high as materials such as Waspaloy[®] or Rene-41; but is easier to form and weld.

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 5966, UNS N07263, MSRR 9500/16, OMAT 3/62

Nominal Composition (% by weight) & Mechanical properties:

Nickel	52 (Balance)
Cobalt	19 - 21
Chromium	19 - 21
Molybdenum	5.6 – 6.1
Aluminum + Titanium	2.4 – 2.8
Titanium	1.9 – 2.4
Other interstitials	Not reported

Tensile (ksi)	151
Density (LBs/Cubic inch)	0.302



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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