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Astrolite[®] Alloy 31

Astrolite 5789

Product Description:

Astrolite[®] Alloy 31 (also known as Cobalt 31, Haynes[®] 31, Stellite 31, W 31, 54Co 25.5Cr 10.5Ni 7.5W), is a Co-Cr-Ni-W, single phase, solid solution strengthened, wear resisting, high temperature alloy used for welding cobalt base alloys of similar composition. Alloy 31 is used in gas turbine engines in areas subject to hot gas erosion.

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 5789, UNS R30188, MSRR 9500/25, Omat 3/83A

Nominal Composition & Mechanical properties:

Cobalt	54 (Balance)
Chromium	24.5 – 26.5
Nickel	9.5 – 11.5
Tungsten	7 - 8
Iron	2 max
Manganese	1 max
Silicon	1 max
Other interstitials	Not reported

Density (LBs/Cubic inch)	0.283
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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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