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Astrolite[®] Alloy 188

Astrolite 5801

Product Description:

Astrolite[®] Alloy 188 (also known as Alloy 188, Haynes[®]188), is a cobalt-nickel-chromium-tungsten alloy that may be readily fabricated for aerospace and commercial gas turbine engine applications, including combustion cans, flame holders, liners, transition ducts, and afterburner parts.

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 5801 , UNS R30188.

Nominal Composition & Mechanical properties:

Cobalt	39 (Balance)
Chromium	20 - 24
Nickel	20 - 24
Tungsten	13 - 16
Iron	3
Manganese	1.25
Other interstitials	Not reported

Tensile (ksi)	144
Density (LBS/Cubic inch)	0.324



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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