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Astrolite® Greek Ascoloy

Astrolite 5817

Product Description:

Astrolite® Greek Ascoloy (also known as Greek Ascoloy, stainless steel 418, 418 stainless) is a hardenable chromium-nickel-tungsten martensitic stainless steel designed for use in highly stressed parts at temperature up to 1200°F. It obtains deep hardening and has superior creep strength, resistance to tempering and stress-corrosion cracking together with the properties of the standard 12% chromium grades of stainless steel. Greek Ascoloy is used in such applications as steam turbine buckets and blades as well as compressor parts in gas turbines and high temperature bolts.

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 5817, UNS S41800

Nominal Composition (% by weight) & Mechanical properties:

Iron	(Balance)
Chrome	12 - 14
Tungsten	2.5 – 3.5
Nickel	1.8 – 2.2
Other interstitials	Not reported

Tensile (ksi)	82
Density (LBs/Cubic inch)	0.298

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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