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Astrolite® 347 Stainless

Astrolite 5680

Product Description:

Astrolite®347 Stainless (also known as 347, 18-8 Nb, 18-8 Cb, 347S96 mod) is used with the gas tungsten arc, gas metal arc and submerged arc processes for welding stabilized steel grades 321, 347 and 348. It is used in manufacture and overhaul of gas turbine thin gauge components on 321 and 347 base alloys for hot gas ducting and liners subject to thermal cycling. 347 stainless is similar to type 321 but has a higher creep strength.

Astrolite®347 Stainless 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:

AMS5680, AWS A5.9 ER347, UNS S34781, MSRR9500/2, Omat 306A

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Nominal Composition (% by weight) & Mechanical properties:

Iron	Bal
Chromium	18 - 21
Nickel	9 - 11
Si	1
Niobium + Tantalum	8xC% - 1.0
Other interstitials	Unreported

Tensile (ksi)	86
Density (LBs/Cubic inch)	0.285

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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