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www.tricormetals.com

Product Description:

Astrolite®321 Stainless (also known as 321SS, 18.Cr 10.5Ni 0.40T) is an austenitic chromium-nickel stainless steel containing Titanium. The titanium addition reduces or prevents carbide precipitation during welding and in 800 - 1500°F (427 - 816°C) service. It also eliminates the need for anneal after welding. Alloy 321 provides excellent resistance to oxidation and corrosion and possesses good creep strength. 321 Stainless is used for aircraft collector rings, exhaust manifolds, expansion joints.

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:

AMS5689 (Chemistry only), AWS A5.9 ER321, UNS S32100

Need pricing?

Nominal Composition (% by weight) & Mechanical properties:

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Iron	Bal
Chromium	17 - 19
Nickel	9 - 12
Titanium	5x(C+N)
Other interstitials	Unreported

Tensile (ksi)	94
Density (LBs/Cubic inch)	0.286

Available Product Forms and Sizes, Packaging & Identification:

Straight Lengths	Spooled
AMS-2813 – Standard packaging	Precision layer wound, with controlled cast and helix
AMS-2814 – Premium packaging available upon request	AMS-2813 – standard packaging
Vapor barrier packaging available upon request.	AMS-2814 – Premium, vapor barrier packaging available
1 LB and 5 LB bags available.	upon request.
36" (914 mm) – Standard length. Other lengths available	12" – Standard spool diameter
on request.	Other spool diameters; 4" & 8" diameter spools available
Flag tagged on one end per AMS-2816. Tagging of both	on request.
ends available upon request.	
Color coding to AMS-2819 or customer-specific	
specification is available upon request.	
Diameters: 0.020", 0.025", 0.030", 0.035", 0.040", 0.045",	Upon request special diameters and shapes may be
0.062", 0.078", 0.093", 0.125"	available.

DFARS Compliant

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