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Astrolite[®] Alloy 718 Astrolite 5832

Product Description:

Astrolite[®] Alloy 718 (also known as Inconel[®]718, Nicrofer[®]5219, Superimphy 718, Haynes[®]718, Pyromet[®]718, Supermet 718 and Udimet 718) is a Ni-based alloy, age-hardenable alloy with excellent strength to 1200°F (650°C). The alloy is used in gas turbine components and gas turbine repairs, and cladding/overlay of parts in the oil and gas industry.

Astrolite[®] 718 UltraGrade™ surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips.

Astrolite[®] 718 UltraGrade™ wire cleaning processes insure very clean wire surface for reliable welding performance.

Specifications:

AMS5832, UNS N07718, AWS A5.14 ERNiFeCr-2, MSRR 9500/220, Omat 3/206

Nominal Composition (% by weight) & Mechanical properties:

Nickel	50.0-55.0
Iron	Balance
Chromium	17.0-21.0
Niobium + Tantalum	4.75-5.50
Molybdenum	2.80-3.30
Titanium	0.65-1.15
Aluminum	0.20-0.80
Other interstitials	Unreported

Tensile (ksi)	165
Density (LBs/Cubic inch)	0.296



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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