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Astrolite® Réne41

Astrolite 5800

Product Description:

Astrolite® Réne41 (also known as Réne41, R41) is a nickel-based precipitation-hardening type alloy. Strength is developed by various solution annealing and aging heat treatments. Due to its high strength and good oxidation resistance, the alloy is being used in jet engine hot components, missile components, springs, afterburner parts and nozzle diaphragm partitions in gas turbine engines.

Réne41 alloy is now being replaced in many applications by Alloy 282®, due to the better fabricability of Alloy 282®.

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 5800, MSRR9500/241, UNS N07041

Nominal Composition (% by weight) & Mechanical properties:

Nickel	52 (Balance)
Chromium	18 - 20
Cobalt	10 - 12
Molybdenum	9 – 10.5
Iron	5 max
Titanium	3 – 3.3
Aluminum	1.4 – 1.6
Other interstitials	Not reported

Tensile (ksi)	181
Density (LBs/Cubic inch)	0.298

Need [pricing?](#)

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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