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Astrolite[®] Waspaloy[®]

Astrolite 5828

Product Description:

Astrolite[®] Waspaloy[®] is an age-hardenable, nickel-based superalloy with very good strength at temperatures up to about 1800°F (980°C). It is used as a wrought material for forged and fabricated gas turbine and aerospace components. Its strength is generally comparable to René41 alloy, and is superior to that of alloy 718 at temperatures above 1200-1300°F (650-705°C). The alloy exhibits good resistance to gas turbine combustion environments at temperatures up to about 1600°F (870°C).

Waspaloy is now being replaced in many applications by Alloy 282[®] alloy, due to the superior fabricability and creep-strength 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 5828, UNS N07001, MSRR 9500/202, OMAT 3/99

Nominal Composition (% by weight) & Mechanical properties:

Nickel	58 (Balance)
Chromium	18 – 21
Cobalt	12 – 15
Molybdenum	3.5 - 5
Titanium	2.75 – 3.5
Iron	2 max
Aluminum	1.2 – 1.6
Other interstitials	Not reported

Tensile (ksi)	189
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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