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Astrolite® Alloy L-605

Astrolite 5796

Product Description:

Astrolite® Alloy L-605 (also known as Haynes® 25, Stellite® 25, L605) is a non-magnetic, cobalt-chromium-tungsten-nickel alloy with excellent resistance to the hot corrosive atmospheres in jet engine applications. Astrolite® Alloy L-605 combines properties which make it suitable for a number of component applications in the aerospace industry, including parts in established military and commercial gas turbine engines – rings, blades, combustion chambers parts.

Newer materials such as Astrolite® Alloy 188, and Astrolite® HAYNES® 230® alloy have replaced L-605 in more modern engines.

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 5796, UNS R30605, MSRR 9500/23, OMAT 3/64A

Nominal Composition (% by weight) & Mechanical properties:

Cobalt	51 (Balance)
Chromium	19 - 21
Tungsten	14 -16
Nickel	9 - 11
Iron	3
Manganese	1 - 2
Silicon	1
Other interstitials	Not reported

Tensile (ksi)	144
Density (LBs/Cubic inch)	0.335



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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