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Astrolite[®] H-S

Astrolite 5838

Product Description:

Astrolite[®] H-S (also known as Hastelloy[®] S, Alloy S) is use for the gas metal arc and gas tungsten arc welding of S alloy. The deposited weld metal has excellent thermal stability, low thermal expansion and excellent oxidation resistance to 2000°F. H-S weld metal retains its strength and ductility after aging at temperatures of 800°F to 1600°F. The filler metal also is a candidate for dissimilar joining in cyclic heating applications and long term temperature exposure.

Astrolite[®] H-S 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:

AMS5838, UNS N06635, MSRR 9500/239

Nominal Composition (% by weight) & Mechanical properties:

Nickel	Balance
Chromium	14.5 - 17
Molybdenum	14.0 – 16.5
Iron	3.0 max
Cobalt	2.0 max
Manganese	0.3 – 1.0
Tungsten	1.00mx
Other interstitials	Unreported

Tensile (ksi)	129.8
Density (LBs/Cubic inch)	0.316



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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