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## Astrolite<sup>®</sup> Alloy 230-W<sup>®</sup>

## Astrolite 5839

### Product Description:

Astrolite<sup>®</sup> Alloy 230-W<sup>®</sup> (also known as Haynes<sup>®</sup> Alloy 230-W<sup>®</sup>) is recommended for joining 230<sup>®</sup> alloy and also may be used to join Alloy 617 (UNS N06617). Alloy 230-W<sup>®</sup> is a nickel-chromium-tungsten-molybdenum alloy used for combustion cans, transition ducts, flame holders, thermocouple sheaths, and other gas turbine components.

In the chemical process industry, Alloy 230<sup>®</sup> is used for catalyst grid supports in ammonia burners, thermocouple protection tubes, heat exchangers, ducts, and high-temperature bellows.

In the industrial heating industry, applications for Alloy 230<sup>®</sup> include furnace retorts, chains and fixtures, burner flame shrouds, dampers, furnace internals, heat-treating baskets, grates, trays, sparer and thermocouple tubes.

Astrolite<sup>®</sup> UltraGrade™ surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips.

Astrolite<sup>®</sup> UltraGrade™ wire cleaning processes insure very clean wire surface for reliable welding performance.

### Specifications:

AMS5839, AWS A5.14 ERNiCrWMo-1, UNS N06231.

### Nominal Composition (% by weight) & Mechanical properties:

Nickel	57 (Balance)
Chromium	20 - 24
Tungsten	13 - 15
Cobalt	5 max
Iron	3 max
Molybdenum	1 - 3
Manganese	0.3 - 1
Other interstitials	Not reported

Tensile (ksi)	111
Density (LBs/Cubic inch)	0.324

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### 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> . <b>Flag tagged</b> on one end per AMS-2816. <i>Tagging of both ends available upon request.</i> <b>Color coding</b> to AMS-2819 or customer-specific specification is <i>available upon request</i> .	12" – Standard spool diameter <i>Other spool diameters; 4" &amp; 8" diameter spools available on request.</i>
<b>Diameters:</b> 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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