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Astrolite[®] Alloy 82

Astrolite 5836

Product Description:

Astrolite[®] Alloy 82 (also known as Alloy 82, FM 82, and Inconel[®] 82) is used for gas metal arc, gas tungsten arc and submerged arc welding of alloy 600, 601, 800 and 825. The alloy can also be used in dissimilar welding applications with carbon and stainless steels, HAYNES[®] and HASTELLOY[®] alloys and nickel-copper alloys.

Astrolite[®] 82 UltraGrade™ surface finish on the spooled wire promotes smooth feeding through welding equipment which may result in reduced tip wear in contact tips. Astrolite[®] 82 UltraGrade™ wire cleaning processes insure very clean wire surface for reliable welding performance.

Specifications:

AMS5836, UNS N06082, AWS A5.14 ERNiFeCr-2, MSRR 9500/216, Omat 3/170

Nominal Composition (% by weight) & Mechanical properties:

Nickel	67 min.
Chromium	18 - 22
Manganese	2.5 – 3.5
Iron	3 max.
Niobium	2 - 3
Other interstitials	Unreported

Tensile (ksi)	80
Density (LBs/Cubic inch)	0.294

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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