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Astrolite® Ti 6-2-4-2

Astrolite 4952

Product Description:

Astrolite® Ti 6-2-4-2 (also known as 6-2-4-2 Ti, 6 Al 2 Sn 4 Zr 2 Mo Ti, TIMETAL® 6-2-4-2 6 Al 2 Sn 4 Zr 2 Mo Ti,) offers a strong combination of tensile strength, creep strength, toughness, and high-temperature stability for long-term applications at temperatures up to 1000°F (538°C). Its primary application is gas turbine compressor components such as blades, discs, impellers. Ti 6-2-4-2 is also used in sheet metal form for engine afterburner structure and various hot airframe skin applications.

Astrolite® Ti 6-2-4-2 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-4952, UNS R54620, MSRR9500/74, MSRR8661, Omat 3/250

Nominal Composition (% by weight) & Mechanical properties:

Titanium	Balance
Aluminum	5.5 – 6.5
Zirconium	3.6 – 4.4
Tin	1.8 – 2.2
Molybdenum	1.8 – 2.2
Other interstitials	Unreported

Tensile (ksi)	146
Density (LBs/Cubic inch)	0.164

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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