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Astrolite® 17-4 Stainless

Astrolite 5825

Product Description:

Astrolite® 17-4 Stainless (also known as 17-4, SS630) is an age-hardening martensitic stainless combining high strength with the corrosion resistance of stainless steel. Hardening is achieved by a short-time, simple low-temperature treatment. Unlike conventional martensitic stainless steels, such as type 410, 17-4 is quite weldable. The strength, corrosion resistance and simplified fabrication can make 17-4 stainless a cost-effective replacement for high strength carbon steels as well as other stainless grades.

Astrolite® 17-4 Stainless 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:

AMS5825, AWS A5.9 ER630 (formerly 327), UNS S17480

Nominal Composition (% by weight) & Mechanical properties:

| Iron | Bal |
|---------------------|------------|
| Chromium | 11 – 12.5 |
| Nickel | 2.5 - 3 |
| Molybdenum | 1.5 - 2 |
| Cobalt | 1.3 - 2 |
| Other interstitials | Unreported |

| | |
|--------------------------|-------|
| Tensile (ksi) | 134 |
| Density (LBs/Cubic inch) | 0.296 |

Need [pricing?](#)

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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