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Astrolite® 4145 Aluminum

Astrolite 4184

Product Description:

Astrolite® 4145 Aluminum (also known as AlcuBraz 4145, Al 716) is a Al-Si-Cu welding alloy with low melting range which enables successful repair welds to be made in copper containing heat treatable Al-Alloys. For joining grades 201, 206, 224, 314, 330, 354, 355 to 6005, 6061, 6063, 6101, 6151, 6201, 6351, 6951, 6009, 6010, 6070 A356, 37, 413 to 201, 206, 224, 319, 330, 354, 355, C355.

4145 Aluminum was originally developed as a brazing alloy because of its low melting temperature and high fluidity. It provides very low susceptibility to weld cracking when used with 2XXX series alloys or, aluminum-copper, or aluminum-copper-silicon castings. It can be used in elevated temperature service applications. The alloy is often preferred over alloy 2319 when MIG welding because it "wets" out better, provides a brighter looking weld, and produces less smut. It does, however, have lower weld tensile strengths than alloy 2319, and it is not suited for welding high magnesium containing alloys.

Specifications:

AMS-4184, AWS A5.10/A5.10M:1999 ER4145 R4145, UNS- A 94145, MSRR 9500/35, Omat 337

Nominal Composition (% by weight) & Mechanical properties:

Aluminum	Balance
Silicon	9.3 - 10.7
Copper	3.3-4.7
Other interstitials	Unreported

Tensile (ksi)	13
Density (LBs/Cubic inch)	0.098

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 upon 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 Special spool sizes may be available upon request
Diameters: 0.030", 0.035", 0.047", 0.062", 0.094"	<i>Upon request special diameters and shapes may be available.</i>

DFARS Compliant



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