Alloy 2319 Data Sheet

AWS A5.10
ER2319
AMS 4191
UNS A92319
USWC 4191(C)

Aerospace Material Specification 4191 is aluminum alloy 2319. This alloy is an Aluminum-Copper filler metal. This filler metal is good for use in gas-metal-arc or gas-tungsten-arc welding of aluminum alloys in similar composition. Alloy 2319 is commonly used in high strength structural and aircraft applications. This alloy is typically used when greater resistance to stress corrosion cracking is desired.

Available in multiple diameters and sizes in straight length wire and in spools.

CHEMICAL COMPOSITION (Wt %):

Si	Fe	Mn	Cu	Zn	Mg	Al	Be	Ti	V	Zr	Other impurity	Other element
0.20	0.30	0.20-0.40	5.8-6.8	0.10	0.02	Bal	0.0003	0.10-0.20	0.05-0.15	0.10-0.25	0.05	0.15

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CRF 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210. SDS' may be obtained at the website below.