

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	GTAW and SOLID WELI ALUMINU	GMAW DING WIRE		ISO 9001 AS 9100 Revision A	DATA SHEET 4191
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	MSRR 9500/45 AMS 4191 Alloy 2319 UNS A 92319 AWS A5.10 ER 2319, R 2319 USWC 4191 (C)				
METALLURGICAL BACKGROUND INFORMATION	ALLOY 2319 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants. ALLOY 2319 is one of the few Al-Cu alloy filler metals available. This heat treatable alloy is used to fabricate Al-Cu casting alloys which are then subject to PWHT.				
MATERIALS TO BE WELDED AND APPLICATIONS	2219, 201, 206, 224, 2014, 2036, 2693, (2319 USA), H15, L119. Al-Cu casting alloys. Not to be used for welding 5xxx series alloys.				
WIRE CHEMISTRY WT%	Manganese 0. Zirconium 0. Titanium 0.	8 - 6.8 20 0.40 10 0.25 10 0.20 05 0.15 0.30	Silicon Zinc Magnesium Beryllium Other impuri Other impuri	ities - 0.0 ities - 0.1	10
WELD PROPERTIES	Melting range 1009° - 1189°F Density 2.77gm/cc Hardness range 122 - 153 HV				
SIZES AND FORMS AVAILABLE	STRAIGHT LENGTHS 2.2 kg (5 lb) packs. 914 mm (36") lengths. Flag tagged for traceability. (Double tagging and other lengths on request). Wide range of diameters. SPOOLED WIRE Precision layer wound & with controlled cast & helix. 300 mm (12") diameter spools standard. 200 mm, 100 mm and proprietary spool sizes on request Wide range of diameters and spool weights.				
PACKAGING	Sealed, air-evacuated, argon purged Vapor Barrier e nvelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.				
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