

## UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	SOLII	357 Wand GN WELDIN JMINUM I	G WIRE	2	ISO 9001 AS 9100 Revision A	DATA SHEET 4246	
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 4246 357.0 DRU 1438 AWS A5.10 R357 USWC 4246 (C) R.357.0 UNS A03570						
METALLURGICAL BACKGROUND INFORMATION	ALLOY 357 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants. ALLOY 357 is an Al-Si-Mg welding alloy for use on casting alloys of similar composition. It is Be-free.						
MATERIALS TO BE WELDED AND APPLICATIONS	AMS 4219 A 357, 357.0, 357.2 BSL169						
WIRE CHEMISTRY WT%	Silicon Magnesium Titanium Iron Zinc Beryllium-free ver	6.5 0.45 - - - sion of AMS	7.5 0.60 0.20 0.15 0.05 4219	Copper Mangane Other im Other ele Aluminu	ese 0 purities 0 ements 0	.05 .03 .05 each max .15 total max alance	
WELD PROPERTIES	Melting range 1029° - 1135°F Density 2.69gm/cc						
SIZES AND FORMS AVAILABLE PACKAGING	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. Sealed, air-evacuated, argon purged Vapor Barri atmospheric contamination and prolonged shelf-			300 r 200 r t). reque Wide	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. ier envelopes with desiccants ensure full protection from -life.		
DFARS Compliant			0		www.usw	eldingcorp.com	