UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	357 GTAW and GMAW SOLID WELDING WIRE ALUMINUM BASE	ISSUED JANUARY 2007 REVISION NO. A	DATA SHEET 4246 (8)

CROSS-REFERENCE CONFORMANCE SPECIFICATIONS

AMS 4246
DRU 1438
USWC 4246 (C)
UNS A03570
357.0
AWS A5.10 R357
R.357.0

METALLURGICAL BACKGROUND INFORMATION

ALLOY 357 is a solid welding wire produced conventiona lly 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	6.5	7.5	Copper	0.05
Magnesium	0.45	0.60	Manganese	0.03
Titanium	-	0.20	Other impurities	0.05 each max
Iron	-	0.15	Other elements	0.15 total max
Zinc	-	0.05	Aluminum	Balance

Beryllium-free version of AMS 4219

WELD PROPERTIES

Melting range 1029° - 1135°F Density 2.69gm/cc

SIZES AND FORMS AVAILABLE

STRAIGHT LENGTHS	SPOOLED WIRE
2.2 kg (5 lb) packs.	Precision layer wound & with controlled cast & helix.
914 mm (36”) lengths.	300 mm (12”) diameter spools standard.
Flag tagged for traceability.	200 mm, 100 mm and proprietary spool sizes on request
(Double tagging and other lengths on request).	Wide range of diameters and spool weights.
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PACKAGING

Sealed, air-evacuated, argon purged Vapor Barrier e nvelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.

DISTRIBUTED BY:

3579 HIGHWAY 50 EAST #104 □ CARSON CITY, NEVADA 89701-2826
775/883-7878 □ 800/423-5964 □ FAX: 775/883-7776