UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	5356 GTAW and GMAW SOLID WELDING WIRE ALUMINUM BASE	ISSUED JANUARY 2007 REVISION NO. A	DATA SHEET 1374 (10)

CROSS-REFERENCE CONFORMANCE SPECIFICATIONS

DRU 1374	ER5356 (AWS A5.10)	W N ° 3.35566
UNS A95356	R5356 " "	DIN Al-Mg5
DTD 279	MSRR9500/38	
USWC 1374 (C)	(Replacement for 5056) (N6, NG6)	

METALLURGICAL BACKGROUND INFORMATION

ALLOY 5356 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants.

ALLOY 5356 is an Al-Mg-Mn (Cr Ti) heat treatable alloy used for welding alloys of similar composition. 5356 is increasingly used in preference to type 5056, since it contains Ti for grain refining. (*Note:* 5056 tends only to be available for rivet stock).

MATERIALS TO BE WELDED AND APPLICATIONS

5154, 5050, 5052, 5454, 525, 5005, 5086.

WIRE CHEMISTRY WT%

Silicon	-	0.25	Zinc	-	0.10
Iron	-	0.40	Titanium	0.06	0.20
Copper	-	0.10	Other impurities	-	0.05 each max
Manganese	0.05	0.20	Other impurities	-	0.15 total max
Magnesium	4.5	5.5	Aluminum		Balance
Chromium	0.05	0.20			

WELD PROPERTIES

Melting range 1060° - 1175°F Density 2.66gm/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.	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.

DISTRIBUTED BY:

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