



UNITED STATES WELDING CORPORATION

<p align="center">USW ALLOY DESIGNATION AND DESCRIPTION</p>	<p align="center">5356</p> <p align="center">GTAW and GMAW SOLID WELDING WIRE ALUMINUM BASE</p>	<p align="center">ISO 9001 AS 9100</p>	<p align="center">DATA SHEET</p> <p align="center">1374</p>																																				
<p align="center">CROSS-REFERENCE CONFORMANCE SPECIFICATIONS</p>	<table border="0"> <tr> <td>DRU 1374</td> <td>ER5356 (AWS A5.10)</td> <td>W N ° 3.35566</td> </tr> <tr> <td>UNS A95356</td> <td>R5356 “ “</td> <td>DIN Al-Mg5</td> </tr> <tr> <td>DTD 279</td> <td>MSRR9500/38</td> <td></td> </tr> <tr> <td>USWC 1374 (C)</td> <td>(Replacement for 5056) (N6, NG6)</td> <td></td> </tr> </table>			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)																									
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)																																						
<p align="center">METALLURGICAL BACKGROUND INFORMATION</p>	<p>ALLOY 5356 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants.</p> <p>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. (<i>Note:</i> 5056 tends only to be available for rivet stock).</p>																																						
<p align="center">MATERIALS TO BE WELDED AND APPLICATIONS</p>	<p>5154, 5050, 5052, 5454, 525, 5005, 5086.</p>																																						
<p align="center">WIRE CHEMISTRY WT%</p>	<table border="0"> <tr> <td>Silicon</td> <td>-</td> <td>0.25</td> <td>Zinc</td> <td>-</td> <td>0.10</td> </tr> <tr> <td>Iron</td> <td>-</td> <td>0.40</td> <td>Titanium</td> <td>0.06</td> <td>0.20</td> </tr> <tr> <td>Copper</td> <td>-</td> <td>0.10</td> <td>Other impurities</td> <td>-</td> <td>0.05 each max</td> </tr> <tr> <td>Manganese</td> <td>0.05</td> <td>0.20</td> <td>Other impurities</td> <td>-</td> <td>0.15 total max</td> </tr> <tr> <td>Magnesium</td> <td>4.5</td> <td>5.5</td> <td>Aluminum</td> <td></td> <td>Balance</td> </tr> <tr> <td>Chromium</td> <td>0.05</td> <td>0.20</td> <td></td> <td></td> <td></td> </tr> </table>			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			
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																																					
<p align="center">WELD PROPERTIES</p>	<p>Melting range 1060° - 1175°F Density 2.66gm/cc</p>																																						
<p align="center">SIZES AND FORMS AVAILABLE</p>	<table border="0"> <tr> <td align="center">STRAIGHT LENGTHS</td> <td align="center">SPOOLED WIRE</td> </tr> <tr> <td>2.2 kg (5 lb) packs.</td> <td>Precision layer wound & with controlled cast & helix.</td> </tr> <tr> <td>914 mm (36”) lengths.</td> <td>300 mm (12”) diameter spools standard.</td> </tr> <tr> <td>Flag tagged for traceability.</td> <td>200 mm, 100 mm and proprietary spool sizes on request</td> </tr> <tr> <td>(Double tagging and other lengths on request).</td> <td>request</td> </tr> <tr> <td>Wide range of diameters.</td> <td>Wide range of diameters and spool weights.</td> </tr> </table>			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).	request	Wide range of diameters.	Wide range of diameters and spool weights.																								
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).	request																																						
Wide range of diameters.	Wide range of diameters and spool weights.																																						
<p align="center">PACKAGING</p>	<p>Sealed, air-evacuated, argon purged Vapor Barrier envelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.</p>																																						
<p>DFARS Compliant</p>		<p align="right">www.usweldingcorp.com</p>																																					