



UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND BRIEF DESCRIPTION	AZ61A GTAW SOLID BARE WELDING WIRE MAGNESIUM BASE	ISSUED JANUARY 2007	DATA SHEET 4350 (2)																														
		REVISION NO. A																															
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 4350 AWS A5.19 R-AZ61A AZ61A AFNOR G-A6Z1 MIL-R-6944 USWC 4350 (C) UNS M11610																																
METALLURGICAL BACKGROUND INFORMATION	AZ61A is used for welding wrought base materials of similar composition. AZ61A has good weldability when used with wrought alloys for ambient use.																																
MATERIALS TO BE WELDED APPLICATION AND ADVICE	AZ61A, AZ31B, AZM, AZ10A, AZ80A ASTM B107, QQ-M-31, AMS 4350																																
WIRE CHEMISTRY WT%	<table border="0"> <tr> <td>Aluminum</td> <td>5.80</td> <td>7.20</td> <td>Silicon</td> <td>-</td> <td>0.05</td> </tr> <tr> <td>Manganese</td> <td>0.15</td> <td>-</td> <td>Other elements</td> <td>-</td> <td>0.30 total</td> </tr> <tr> <td>Zinc</td> <td>0.40</td> <td>1.50</td> <td>Magnesium</td> <td></td> <td>Balance</td> </tr> <tr> <td>Copper</td> <td>-</td> <td>0.05</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nickel</td> <td>-</td> <td>0.005</td> <td></td> <td></td> <td></td> </tr> </table>			Aluminum	5.80	7.20	Silicon	-	0.05	Manganese	0.15	-	Other elements	-	0.30 total	Zinc	0.40	1.50	Magnesium		Balance	Copper	-	0.05				Nickel	-	0.005			
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WELD PROPERTIES	Melting Point 1112° F																																
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PACKAGING	Sealed, air-evacuated, argon filled Vapor Barrier containers with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.																																
DISTRIBUTED BY:																																	