



UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND BRIEF DESCRIPTION	AZ92A GTAW SOLID BARE WELDING WIRE MAGNESIUM BASE		ISSUED JANUARY 2007	DATA SHEET 4395 (3)
			REVISION NO. A	
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 4395 AZ92A MIL-W-6944 UNS M11922	AWS A5.19 R-AZ92A MSRR 9500/51 USWC 4395 (C) OMAT 3/58A		
METALLURGICAL BACKGROUND INFORMATION	<p>AZ92A is Mg - 9 Al - 2 Zn welding alloy which finds wide use for fabricating and repair welding of many similar compositions. Casting repair & refurbishment is the most common application.</p> <p>AZ92A is preferred for joining many casting alloys.</p>			
MATERIALS TO BE WELDED APPLICATION AND ADVICE	2L124, 2L125, L122. AMS 4484, 4434, 4453 AZ31B, AZ10A, ZK21A, AM100A, AZ61A, AZ63A, AZ80A, AZ81A, AZ91A, AMS 4360 AZ casting alloys to: EK41A, EZ33A, HK31A, HM21A, HM31A, HZ32A, K1A (except AZ61A)			
WIRE CHEMISTRY WT%	Aluminum 8.30 Manganese 0.15 Zinc 1.70 Copper - Nickel - Iron - Beryllium 2 ppm	8.30 - 2.30 0.05 0.005 0.005 8 ppm	Silicon - Other elements - Magnesium	0.05 0.30 total Balance
WELD PROPERTIES	Melting Point 1112 ° F			
SIZES AND FORMS OF SUPPLY	STRAIGHT LENGTHS 5 lbs. (2.2kg) packs 36" (914mm) lengths Flag tagged for traceability. (Double tagging and other lengths on request) Wide range of diameters.		SPOOLED WIRE Precision layer wound, with controlled cast and helix 12" (300mm) diameter spools standard 8" (200mm), 4" (100mm) and proprietary spool sizes on request. Wide range of diameters and spool weights.	
PACKAGING	Sealed, air-evacuated, argon filled Vapor Barrier containers with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.			
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