

UNITED STATES WELDING CORPORATION

	4043	ISO 9001	
USW ALLOY	1045	AS 9100	DATA SHEET
DESIGNATION	CITAXXI I CIMIAXXI	110 7100	
	GTAW and GMAW		 4190
AND	SOLID WELDING WIRE	Revision A	4190
DESCRIPTION	ALUMINUM BASE		
	MSRR 9500/32	UNS A 9 4043	
CROSS-REFERENCE	AMS 4190	OMAT 310A	
	USWC 4190 (C) Fed-QQ-R-556 Class 4043		
CONFORMANCE	N21 (NG21) Alloy 4043 A (BS 2901 PT4)		
SPECIFICATIONS	MSRR 8065 ER4043, R4043 (AWS A5.10)		
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METALLURGICAL	ALLOY 4043 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants. ALLOY 4043 is an Al-5% Si alloy, <i>non-heat treatable</i> .		
BACKGROUND	ALLOY 4043 has a lower melting range than the base metals for which it is commonly used and relieves contraction during weldment cooling.		
INFORMATION			
MATERIALS TO BE			
WELDED	1xxx, 3xxx, 6xxx series alloys.		
AND	2014, 2219, 5005, 5050, 5052, 7005, 7039, N21.		
	Al-Si, Al-Si-Mg casting alloys and combinations of above materials.		
APPLICATIONS	Al - Lithium alloys. DTD372B, LM4, LM2, LM6, LM9, LM20, LM25, LM27.		
	DTD3/2B, LM4, LM2, LM0, LM9, LM20, LM23, LM27.		
WIDE CHEMICTRY		8	0.05
WIRE CHEMISTRY			0.0008 (8ppm)
WT%	II Coppei		0.05 each max
	I Italiiuiii		0.15 total max
	Zinc	uminum E	Balance
	Manganese - 0.05		
WELD PROPERTIES	Melting range 1063° - 1170°F Density 2.69gm/cc		
	STRAIGHT LENGTHS SPOOLED WIRE		
CITEC	2.2 kg (5 lb) packs. Precision layer wound & with controlled cast & helix.		
SIZES	914 mm (36") lengths. 300 mm (12") diameter spools standard.		
AND	Flag tagged for traceability. 200 mm, 100 mm and proprietary spool sizes on		
FORMS AVAILABLE	(Double tagging and other lengths on request). request		
	Wide range of diameters.	Wide range of diameters	
PACKAGING	Sealed, air-evacuated, argon purged Vapor Barrier e nvelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.		
	aunospheric contamination and protonged shelf-life	•	
DEADS Committee			
DFARS Compliant	www.usweldingcorp.com		