

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	4009 (C355) GTAW and GMAW SOLID WELDING WIRE ALUMINUM BASE	ISO 9001 AS 9100 Revision A	DATA SHEET 4245
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	C355 ER 4009 AMS 4245 R 4009 R 355 USWC 4245 (C) AMS 4215 UNS A03550		
METALLURGICAL BACKGROUND INFORMATION	ALLOY 4009 is a solid welding wire produced conventionally and then surface cleaned to remove standard metal working lubricants.ALLOY 4009 is an Al-Cu-Si alloy for welding casti ng alloys of similar composition (heat-treatable). Low Fe filler metal for improved deposit ductility.		
MATERIALS TO BE WELDED AND APPLICATIONS	A355, 355 castings - repair, refurbishment, reclaim. AMS 4210, 4212, 4214, 4215 Mil - A - 21180 Fed - QQ - A601 - 355 LM16, LM78, (BS1490) SAE 322		
WIRE CHEMISTRY WT%		impurities - 0.05 impurities - 0.15	total
WELD PROPERTIES	Melting range 983° - 1149° F Density 2.72gm/cc Hardness80 - 100 HV		
SIZES AND FORMS AVAILABLE PACKAGING	STRAIGHT LENGTHSSPOOLED WIRE2.2 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(Double tagging and other lengths on request).requestWide range of diameters.Wide range of diameters.Sealed, air-evacuated, argon purged Vapor Barrier envelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.		
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