

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 300 M MC-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE	ISO 9001 AS 9100 Revision A	DATA SHEET 6419
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 6419 MIL-S-8844 UNS K44220 1.6Si 0.82Cr 1.8Ni 0.4Mo 0.08V (0.40 - 0.45C) 300M USWC 6419(V)		
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 300M is produced by vacuum induction melting and remelting techniques. The final wire is manufactured by special lubricant-free, roller-die forming followed by surface abrasion and cleaning processes. These manufacturing processes ensure consistent metallurgical integrity of the alloy with regard to control of trace elements and physical purity of the welding wire surface. TURBALOY® 300M is a high strength, low alloy steel filler material for use for welding similar composition materials.		
MATERIALS TO BE WELDED AND APPLICATIONS	UNS K44315, K44220. AMS 6416, 6417, 6419. MIL-S-8844 Class B MS - 7 -26 CPS - 4911		
WIRE CHEMISTRY WT%	Manganese	ckel 1.65 2.00 olybdenum 0.30 0.50 unadium 0.05 0.10 opper - 0.35 on Bala	5
WELD PROPERTIES	Melting Point: 2740°F Hardness, aged 600°F:56 HRC	Der	nsity: 7.84 gm/cc
SIZES AND FORMS AVAILABLE	STRAIGHT LENGTHS 5 lb. (2.2kg) packs 36" (914mm) lengths Flag tagged for traceability. (Double tagging and other lengths on request) Wide range of diameters. Sealed, air-evacuated, argon purged Vapor Barrier e.	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	atmospheric contamination and prolonged shelf-life.		
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