

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 347 HQ-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE	ISO 9001 AS 9100 Revision A	DATA SHEET 5680
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	18/8 (Cb) Stainless 18.5Cr 11Ni 0.40Cb AMS 5680 UNS S34781 MSRR9500/2		
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 347 undergoes a series of proprietary abrading and cleaning processes to remove all surface contaminants. These manufacturing processes ensure a consistent ultra-clean weld wire surface. TURBALOY® 347 is an austenitic stainless steel, stabilized with Columbium and containing a small consistent amount of delta ferrite and is used to weld stabilized and/or low carbon stainless alloys of similar composition.		
MATERIALS TO BE WELDED AND APPLICATIONS	MSRR 6522, 6523, 6524, 6525, 6527. S126, S127, S128, 2S129, 2S130. AMS 5510, 5570, 5576, 5559, 5512, 5575, 5654. Manufacture and overhaul of gas turbine thin gauge components on 321 and 347 base alloys. Hot gas ducting and liners. To minimize hot cracking susceptibility, apply small stringer beads with convex profile using argon gas shielding, ultra clean conditions and minimum heat input.		
WIRE CHEMISTRY WT%		ybdenum - 0.75 imbium 12 x C - per - 0.75	
WELD PROPERTIES	Typical Tensile Strength 90 ksi 02% Yield Strength 37 ksi Elongation 50 % Hardness 150 Brinall	Density 7.89 gm/cc	
SIZES AND FORMS AVAILABLE PACKAGING	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 polyethylene envelopes. (Desiccants optional) 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.		
DFARS Compliant www.usweldingcorp.com			