

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 188 HQ-GRADE GTAW SOLID BARE WELDING WIRE COBALT BASE	AS	9001 9100 vision A	DATA SHEET 5801
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 5801 39Co 22Cr 22Ni 14.5W 0.07La UNS R30188 HS 188 USWC 5801 (A)			
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 188 undergoes a series of proprietary abrading and cleaning processes to remove all contaminants. These manufacturing processes ensure a consistent ultra-clean weld wire surface. TURBALOY® 188 is a Co-Ni-Cr-W-La high temperature filler material which is used to weld alloys of similar composition.			
MATERIALS TO BE WELDED AND APPLICATIONS	AMS 5608 (R30188) AMS 5772 PWA 1015, 1042 MSRR 7136, 7165 Gas turbine engine combustors, flame liners, gas ducting, refurbishment of recycled turbine HT components.			
WIRE CHEMISTRY WT%	Manganese		20.00 24.0 13.00 16.0 0.02 0.1 - 0.0 - 3.0 Bal	0 2 15
WELD PROPERTIES	Hardness: (as deposited) 96 HRB		Den	sity: 9.14 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.	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 polyethylene envelopes. (Desiccants opti	ional)		
DFARS Compliant	JL		www.usw	reldingcorp.com