

UNITED STATES WELDING CORPORATION

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USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 316 HQ-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE	REVISION NO. ISSUED DATA SHEET 5692
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 5692 19Cr 12.5Ni, 2.5Mo USWC 5692 (C) ASTM A313 UNS S31680 MSRR/208 (<i>Note:</i> AMS 5690 is supereseded by AWS A5.9 ER316 5692 for filler metal.)	
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 316 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® 316 is a Molybdenum containing austenitic stainless steel which resists pitting corrosion from chloride ions. The alloy has good scaling resistance and provides exceptional toughness.	
MATERIALS TO BE WELDED AND APPLICATIONS	Molybdenum provides increased creep resistance at elevated temperatures. AMS 5649. ASTM A167, A240, A213, A249, A269, A276, A314, A479, A473.	
WIRE CHEMISTRY WT%	Carbon - 0.08 Chro Manganese 1.00 2.50 Nicke Silicon 0.30 0.65 Moly Sulfur - 0.030 Copp Phosphorus - 0.030 Iron	el 11.00 14.00 bdenum 2.00 3.00
WELD PROPERTIES	Melting point: 2550°F Annealed hardness: 160HV	Density: 7.9 gm/cc
SIZES AND FORMS AVAILABLE	36" (914mm) lengths	SPOOLED WIRE recision layer wound, with controlled cast and helix 2" (300mm) diameter spools standard 2" (200mm), 4" (100mm) and proprietary spool sizes a request. 2" (ide range of diameters and spool weights.
PACKAGING	Sealed polyethylene envelopes. (Desiccants optional)	

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