

## UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	MC GTAW SOLID BA	-GRAD	LDING WIR	E	AS 9100 Revision	)	DATA SHEET 6461
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 6461 USWC 6461 (V)  AMS 6462 0.95Cr 0.2V (0.28 - 0.33C)  UNS K13148 MIL-R-5632 Type VI  SAE 6130(VM)						
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 6130 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® 6130 is a high strength low alloy steel filler metal used for fabricating alloys of similar composition. The high purity grade promotes excellent toughness and ductility. Ultra clean weldment conditions should be used for optimum weld properties. Brochures available.						
MATERIALS TO BE WELDED AND APPLICATIONS	AMS 6448, 6455, UNS G61500. Repair welding and fabrication of:- Aircraft structural components, seat frames, steps, ground support equipment, and rocket motor cases.  Use ultra clean weldment preparation. Refer to PH & PWHT chart.						
WIRE CHEMISTRY WT%	Carbon Manganese Silicon Sulfur Phosphorus Sulfur & Phosphorus Chromium Vanadium	0.28 0.60 0.15 - - 0.80 0.15	0.33 0.90 0.35 0.008 0.008 0.012 1.10 0.25	Nickel Molybden Oxygen Nitrogen Hydrogen Copper Iron	-	0.005	5 (25ppm) (50ppm) 0 (10ppm)
WELD PROPERTIES	CVN at 0°F, 16ft lbs (Minimum specification requirement: 15 ft lbs.)			Density 7.4gm/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.  ter e nyelopes with desiccants ensure full protection from			
PACKAGING	atmospheric contamina				s with desiccar	ns ensur	e tuil protection from
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