

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® X HQ-GRADE GTAW SOLID BARE WELDING WIR NICKEL BASE	ISO 9001 AS 9100 Revision A The property of
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	MSRR 9500/215 47.5Ni 22Cr 1.5Co 9.0Mo 0.60W 18.5Fe AMS 5798 USWC 5798A UNS N06002 OMAT 3/165 A Hastelloy X	
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® X 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® X is a Ni-Cr-Fe alloy having exceptional oxidation resistance and good weldability.	
MATERIALS TO BE WELDED AND APPLICATIONS	Turbine engine tailpipes, combustors and burner-repair, cabin heater ducting and heat exchanger re MSRR 7180 AMS 5754, 5536, 5587, 5588, 5390. ASTM B572, B435	can overhaul, afterburner components, NGV and blade epair, turbine exhaust components.
WIRE CHEMISTRY WT%	Manganese	Cobalt 0.50 2.50 Molybdenum 8.00 10.00 Tungsten 0.20 1.00 Iron 17.00 20.00 Boron - 0.010 Nickel Balance
WELD PROPERTIES	Hardness annealed: 75 - 85 HRB Rapid cooled: 89 - 92 HRB	Density: 8.22 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 polyethylene envelopes. (Desiccants opti	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	Service and the service and th	- ",
DFARS Compliant		www.usweldingcorp.com