

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 92 HQ-GRADE GTAW SOLID BARE WELDING WIRE NICKEL BASE	ISO 9001 AS 9100 Revision A DATA SHEET 5675
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	MSRR 9500/9 AMS 5675 UNS N07092 FM 92 70Ni 15.5Cr 7Fe 3.0Ti 2.4Mn	
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 92 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® 92 is a precipitation hardening Ni-Cr-Fe alloy.	
MATERIALS TO BE WELDED AND APPLICATIONS	other and to high nickel alloys. Applications incl	elding of austenitic and ferritic stainless alloys to each ude Ni200 and M60 and M67 to stainless steels and LOY® 92 is also suitable for 9% Ni steel fabrication.
WIRE CHEMISTRY WT%	Carbon - 0.08 Manganese 2.00 2.75 Silicon - 0.35 Sulfur - 0.015 Chromium 14.00 17.00	Nickel + Cobalt 67.00 - Titanium 2.50 3.50 Cobalt - 1.00 Copper - 0.50 Iron - 10.00
WELD PROPERTIES	(As-welded) Hardness: 160 - 200VN Proof stress (0.2% offset): 400 Mpa Tensile strength: 640 Mpa Elongation: > 30% RA: > 55%	
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		www.usweldingcorp.com