

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 8020 HQ-GRADE GTAW SOLID BARE WELDING WIRE NICKEL BASE	ISO 9001 AS 9100 Revision A	DATA SHEET 8020
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	MSRR 9500/3 80Cr 20Ni NC 80/20 OMAT 305B BS 2901 PT5 1993 NA 34 NIMONIC 75	OMAT 305B W No 2.4639	
METALLURGICAL BACKGROUND INFORMATION	TURBALOY® 8020 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. Selected low iron content grade.		
MATERIALS TO BE WELDED AND APPLICATIONS	TURBALOY® 8020 weld material is released to MSRR9000/3. TURBALOY® 8020 is used to fabricate Nimonic 75 material in aircraft gas-turbine components requiring oxidation and scaling resistance and structural strength at high operating temperatures. Dissimilar joining applications. MSRR 7004, 7006, 7008, 7104, 7045, 7046, BS: HR5, HR203, HR403.		
WIRE CHEMISTRY WT%	Manganese - 1.20 Cob	per - 0.2 - 0.5	00
WELD PROPERTIES	Hardness: 86 HRB Typical tensile strength: 108-121 ksi with 35-40% elongation		
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 standards 8" (200mm), 4" (100mm) and proprietary spool sizes on request. Wide range of diameters and spool weights.		
PACKAGING	Sealed polyethylene envelopes. (Desiccants optional)		
DFARS Compliant	JI.	www.usw	veldingcorp.com