

## UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY® 605  HQ-GRADE GTAW SOLID BARE WELDING W COBALT BASE	Revision A
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	AMS 5796 UNS R30605	USWC 5796 (A) Haynes 25 MSRR 7091 OMAT 3/64 A
METALLURGICAL BACKGROUND INFORMATION	all surface contaminants. These manufacturing weld wire surface.	prietary abrading and cleaning processes to remove ng processes ensure a consistent ultra-clean mperature, high wear resistant alloy used to weld alloys of
MATERIALS TO BE WELDED AND APPLICATIONS	AMS 5759, 5537  Repair welding of cobalt-base gas turbine corafter-burner parts, rings.  MSRR 7052, 7053, 7091  Pure argon gas shielding and ultra clean weld	BS - HR40
WIRE CHEMISTRY WT%	Carbon         0.05         0.15           Manganese         1.00         2.00           Silicon         -         1.00           Sulfur         -         0.03           Phosphorus         -         0.04	Chromium         19.00         21.00           Nickel         9.00         11.00           Tungsten         14.00         16.00           Iron         -         3.00           Cobalt         Balance
WELD PROPERTIES	Melting range: 2425° - 2570°F Hardness: 96 HRB	Density: 9.1 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.	Wide range of diameters and spool weights.
PACKAGING	Sealed polyethylene envelopes. (Desiccants of	optional)
DFARS Compliant	<u> </u>	www.usweldingcorp.com