

## UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBAL HQ-GR GTAW SOLID BARE NICKEL	ADE WELDING WI	RE	ISO 9001 AS 9100 Revision A	DATA SHEET
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	MSRR 9500/16         ALLOY C-263         AMS 5966           AMS 5872         W No 2.4650           MSRR 7036         OMAT 3/62A           USWC 5872 (A)         UNS N07263           48Ni 20Cr 20Co 5.9Mo 2.2Ti 0.45A1         Available in MC-GRADE				
METALLURGICAL BACKGROUND INFORMATION	<ul> <li>TURBALOY<sup>®</sup> 263 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.</li> <li>TURBALOY<sup>®</sup> 263 is a Ni-Cr-Co-Mo precipitation hardening high temperature alloy used for welding similar turbine components.</li> </ul>				
MATERIALS TO BE WELDED AND APPLICATIONS	Aircraft engine sheet components in Nimonic C263.         BS HR10, HR 206, HR 404.         AMS 5886. (Bars, forgings & rings)         Pure argon gas shielding and ultra clean weldment preparation required.				
WIRE CHEMISTRY WT%	Manganese Silicon Sulfur Phosphorus Chromium	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cobalt Titanium Aluminum Ti+Al Iron Boron Copper Nickel	19.00 1.90 0.30 2.40	21.00 2.40 0.60 2.80 0.70 0.005 0.20 Balance
WELD PROPERTIES	Hardness, soft condition: 2		Density: 8.36 gm/cc		
SIZES AND FORMS AVAILABLE	STRAIG 5 lb. (2.2kg) packs 36" (914mm) lengths Flag tagged for traceability (Double tagging and other Wide range of diameters.	12" (30) 8" (200) on requ	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 envelo	optional)			
DFARS Compliant				WWW.	usweldingcorp.com

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