

UNITED STATES WELDING CORPORATION

USW ALLOY DESIGNATION AND DESCRIPTION	TURBALOY [®] 309L HQ-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE	ISO 9001 AS 9100 Revision A	data sheet 1439
CROSS-REFERENCE CONFORMANCE SPECIFICATIONS	USWC 1439 24Cr 13 Ni UNS S30980 AWS A5.9 ER309L		
METALLURGICAL BACKGROUND INFORMATION	 TURBALOY[®] 309L 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[®] 309L is used to weld similar and dissimilar metals such as joining type 304 to carbon steels. 		
MATERIALS TO BE WELDED AND APPLICATIONS	Type 304 and dissimilar metals		
WIRE CHEMISTRY WT%	Carbon 1.00 2.50 Ni Manganese 1.00 2.50 Ni Silicon 0.30 0.65 M Sulfur - 0.030 Co	hromium 23.00 25.00 ickel 12.00 14.00 tolybdenum .75 opper - 0.75 on Baland	ce
WELD PROPERTIES	Melting point: Annealed hardness:		
SIZES AND FORMS AVAILABLE PACKAGING	STRAIGHT LENGTHSSPOOLED WIRE5 lb. (2.2kg) packsPrecision layer wound, with controlled cast and helix36" (914mm) lengths12" (300mm) diameter spools standardFlag tagged for traceability.8" (200mm), 4" (100mm) and proprietary spool sizes(Double tagging and other lengths on request)on request.Wide range of diameters.Wide range of diameters and spool weights.Sealed polyethylene envelopes. (Desiccants optional)		
DFARS Compliant			

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