



UNITED STATES WELDING CORPORATION

<p align="center">USW ALLOY DESIGNATION AND DESCRIPTION</p>	<p align="center">TURBALOY® 1006 HQ-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE</p>	<p align="center">ISO 9001 AS 9100</p>	<p align="center">DATA SHEET 5030</p>																					
<p align="center">CROSS-REFERENCE CONFORMANCE SPECIFICATIONS</p>	<p>AMS 5030 .06 Carbon, Maximum AISI 1006 UNS K00606</p>																							
<p align="center">METALLURGICAL BACKGROUND INFORMATION</p>	<p>TURBALOY® 1006 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.</p> <p>TURBALOY® 1006 commercially pure iron with up to 0.06% carbon. It is used where high ductility is required in welded joints of similar material.</p>																							
<p align="center">MATERIALS TO BE WELDED AND APPLICATIONS</p>	<p>AISI 1006, 1008, 1010.</p> <p>Armco iron sheet and plate.</p> <p>AMS 5044, 5047, 5042, 5050, 5053.</p>																							
<p align="center">WIRE CHEMISTRY WT%</p>	<table border="0"> <tr><td>Carbon</td><td>0.06</td><td>max</td></tr> <tr><td>Silicon</td><td>0.08</td><td>max</td></tr> <tr><td>Manganese</td><td>0.50</td><td>max</td></tr> <tr><td>Sulfur</td><td>0.040</td><td>max</td></tr> <tr><td>Phosphorus</td><td>0.040</td><td>max</td></tr> <tr><td>Copper</td><td>0.35</td><td>max</td></tr> <tr><td>Iron</td><td></td><td>Balance</td></tr> </table>			Carbon	0.06	max	Silicon	0.08	max	Manganese	0.50	max	Sulfur	0.040	max	Phosphorus	0.040	max	Copper	0.35	max	Iron		Balance
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<p align="center">WELD PROPERTIES</p>	<p>Melting range: ~ 2640°F min.</p> <p>Hardness: 100 - 120 HV.</p>																							
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<p align="center">PACKAGING</p>	<p>Sealed, air-evacuated, argon purged Vapor Barrier envelopes with desiccants ensure full protection from atmospheric contamination and prolonged shelf-life.</p>																							
<p>DFARS Compliant</p>		<p align="right">www.usweldingcorp.com</p>																						