



# UNITED STATES WELDING CORPORATION

<p align="center"><b>USW ALLOY DESIGNATION AND DESCRIPTION</b></p>	<p align="center"><b>TURBALOY<sup>®</sup> 625</b> MC-GRADE GTAW SOLID BARE WELDING WIRE NICKEL BASE</p>	<p align="center"><b>ISSUED</b> JANUARY 2007</p>	<p align="center"><b>DATA SHEET</b> <b>5837</b> (13)</p>																																										
<p align="center"><b>CROSS-REFERENCE CONFORMANCE SPECIFICATIONS</b></p>	<table border="0"> <tr> <td>MSRR 9500/237</td> <td>AFNOR NC 22D Cb</td> </tr> <tr> <td>AMS 5837</td> <td>OMAT 3/127A</td> </tr> <tr> <td>UNS N06625</td> <td>USWC 5837 (A)</td> </tr> <tr> <td></td> <td>Alloy 625</td> </tr> </table>			MSRR 9500/237	AFNOR NC 22D Cb	AMS 5837	OMAT 3/127A	UNS N06625	USWC 5837 (A)		Alloy 625																																		
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<p align="center"><b>METALLURGICAL BACKGROUND INFORMATION</b></p>	<p>TURBALOY<sup>®</sup> 625 is produced by vacuum induction melting and remelting techniques. The final wire is manufactured by special lubricant-free, roller-die forming following by surface abrasion and cleaning processes.</p> <p>These manufacturing processes ensure consistent metallurgical integrity of the alloy with regard to control of trace elements and physical purity of the welding wire surface.</p> <p>TURBALOY<sup>®</sup> 625 is a single phase Ni-Cr-Mo high temperature alloy.</p>																																												
<p align="center"><b>MATERIALS TO BE WELDED AND APPLICATION</b></p>	<p>TURBALOY<sup>®</sup> 625 is used principally for gas shielded arc welding of INCONEL 625, 601 and similar materials. Frequently used in dissimilar metal welding applications for complex superalloy welds.</p> <p>MSRR 7080, 7101, 7150; MAR-M002 (Hole sealing only)</p> <p>AMS 5666, 5879, 5599, 5581, 5402, 5401.</p> <p>BS 3072, 3074, 3076.</p> <p>Pure argon required for GTAW</p>																																												
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<p align="center"><b>PACKAGING</b></p>	<p>Sealed polyethylene envelopes. (Desiccants optional)</p>																																												
<p>DISTRIBUTED BY:</p>																																													