



UNITED STATES WELDING CORPORATION

<p align="center">USW ALLOY DESIGNATION AND DESCRIPTION</p>	<p align="center">TURBALOY® 155 HQ-GRADE GTAW SOLID BARE WELDING WIRE IRON BASE</p>	<p align="center">ISSUED JANUARY 2007</p>	<p align="center">DATA SHEET 5794 <small>(19)</small></p>																																										
<p align="center">CROSS-REFERENCE CONFORMANCE SPECIFICATIONS</p>	<table border="0"> <tr> <td>AMS 5794</td> <td>31Fe 21Cr 20Ni 20Co 3.0Mo 2.5W 1.0Cb 0.15N</td> </tr> <tr> <td>N155</td> <td>MSRR 9500/214</td> </tr> <tr> <td>UNS R 30155</td> <td>OMAT 3/166A</td> </tr> <tr> <td>MIL-R-5031 (Comp 9)</td> <td>Multimet Alloy. 20-20-20</td> </tr> <tr> <td>USWC 5794 (A)</td> <td>AISI 661</td> </tr> </table>			AMS 5794	31Fe 21Cr 20Ni 20Co 3.0Mo 2.5W 1.0Cb 0.15N	N155	MSRR 9500/214	UNS R 30155	OMAT 3/166A	MIL-R-5031 (Comp 9)	Multimet Alloy. 20-20-20	USWC 5794 (A)	AISI 661																																
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<p align="center">METALLURGICAL BACKGROUND INFORMATION</p>	<p>TURBALOY® 155 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® 155 is a high temperature, high strength, oxide resisting alloy widely used in the hot section of gas turbine engines. It is used to weld materials of similar composition.</p>																																												
<p align="center">MATERIALS TO BE WELDED AND APPLICATIONS</p>	<p>AMS 5768, 5769, GE B50 A484.</p> <p>AMS 5531, 5532, 5585, 5376.</p> <p>ASTM 639</p>																																												
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<p align="center">WELD PROPERTIES</p>	<p>Melting Point: 2470°F Density: 8.20gm/cc Hardness of sheet material: Soft condition: 92 HRB, Aged : 94 HRB</p>																																												
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<p align="center">PACKAGING</p>	<p>Sealed polyethylene envelopes. (Desiccants optional)</p>																																												
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