



# CEWELD ER 90 S-G (P92) Tig

TYPE	Medium alloyed, high-strength creep resistant 9% Chromium alloy.																				
APPLICATIONS	TIG/GTAW wire for high temperature, creep resistant, modified 9%Cr1%Mo martensitic steel (T92/P92). Alloy T92/P92 is widely used in the power generating industry for fossil fuel ultra-super-critical (USC) power plant boilers and turbines; the alloy is also finding applications in the chemical and oil and gas industries.																				
PROPERTIES	T92/P92 steel is commonly used at service temperatures up to 620°C. V, Nb and N additions provide this 'creep strength enhanced ferritic' (CSEF) alloy with improved high temperature creep resistance compared to standard CrMo creep resistant alloys.																				
CLASSIFICATION	<table border="0"> <tr> <td>AWS</td> <td>A 5.28: ER 90S-G</td> </tr> <tr> <td>EN ISO</td> <td>21952-A: W ZCrMoWVNb 9 0,5 1,5</td> </tr> <tr> <td>F-nr</td> <td>6</td> </tr> <tr> <td>FM</td> <td>3</td> </tr> </table>	AWS	A 5.28: ER 90S-G	EN ISO	21952-A: W ZCrMoWVNb 9 0,5 1,5	F-nr	6	FM	3												
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SUITABLE FOR	For matching P92, 9%Cr1.7%W0.5%Mo, creep resisting martensitic steels. X10CrWMoVNb 9 2 ASTM: A182 grade F92, A213 grade T92, A335 grade P92, A387 grade 92																				
APPROVALS	CE																				
WELDING POSITIONS																					
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>W</th> <th>Nb</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.35</td> <td>0.5</td> <td>0.008</td> <td>0.008</td> <td>9.1</td> <td>0.5</td> <td>0.8</td> <td>1.6</td> <td>0.05</td> </tr> </tbody> </table>	C	Si	Mn	P	S	Cr	Ni	Mo	W	Nb	0.1	0.35	0.5	0.008	0.008	9.1	0.5	0.8	1.6	0.05
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REDRYING	Not required																				
GAS ACC. EN ISO 14175	I1																				