










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	AWS	A 5.28: ER 90S-G								
	EN ISO	21952-A: W ZCrMoWVNb 9 0,5 1,5								
	F-nr	6								
	FM	3								
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	<div>      </div>									
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	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
MECHANICAL PROPERTIES	Heat Treatment				R _{P0,2} (MPa)	R _m (MPa)	A5 (%)	Hardness		
	730°C- 760°C 3h				550	630	17	HRc		
REDRYING	Not required									
GAS ACC. EN ISO 14175	I1									