



CEWELD ER 90 S-G (P92) Tig

TYPE	Medium-alloyed Copper- coated Tig-rod for high-strength, creep-resistant 9% chromium alloy. (W Z CrMoWVNb 9 0.5 1.5 / ER90S-B92)									
APPLICATIONS	CEWELD® ER 90 S-G (P92) Tig is a high-temperature, creep-resistant, modified martensitic wire of type W Z CrMoWVNb 9 0.5 1.5 / ER90S-B92. The alloy T92/P92 is often used in the power generation industry for ultra-supercritical fossil fuel-fired power plant boilers and turbines; the alloy is also used in the chemical, oil and gas industries.									
PROPERTIES	CEWELD® ER 90 S-G (P92) Tig is commonly used at operating temperatures of up to 620°C. V, Nb and N additions give this “creep improved ferritic” (CSEF) alloy improved high temperature creep resistance compared to standard creep resistant CrMo alloys. Due to the controlled Mn+Ni content, the A C1 temperature is safely above 780°C..									
CLASSIFICATION	AWS	A 5.28: ER 90S-G								
	EN ISO	21952-A: W ZCrMoWVNb 9 0,5 1,5								
	F-nr	6								
	FM	4								
SUITABLE FOR	P92: 9%Cr1.7%W0.5%Mo, 1.4901 X10CrWMoVNb 9 2 ASTM A213 Gr. T 92; A355 Gr. P92; A187 F92, A369 FP92; A1017 Gr 92 KA-STBA29; KA-STPA29 NF 616									
APPROVALS	CE									
WELDING POSITIONS	      									
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									