

CEWELD ER 90S-B9 (P91) Tig



ТҮРЕ	Medium alloyed, high-strength creep resistant 9% Cromium alloy.							
APPLICATIONS	Designed for welding equivalent type 91~ 9% Cr Steels modified with small aditions of Niobium, Vanadium and Nitrogen to offer improved long term creep properties. This alloy is specialy intended for high integrity structural service at elevated temperature such as: Headers, main steam piping and turbine casings, gasification plants etc.							
PROPERTIES	Filler metal specifically intended for high integrity structural service at elevated temperature so the minor alloy additions responsible for its creep strenghth are kept above the minimum considered necessary to ensure satifactory performance.							
CLASSIFICATION	AWSA 5.28: ER 90S-B91EN ISO21952-A: W CrMo91F-nr6FM3W.Nr.1.4903							
SUITABLE FOR	For matching P91, 9%Cr1%Mo modified, creep resisting martensitic steels A 213 T91, A335 P91, A387 Gr91, A 182/A336 F91, X10CrMoVNb9-1, 1503 Gr91, AFNOR NF A- 49213/A-49219 Gr TU Z 10, CDVNb 09-01							
APPROVALS	CE							
WELDING POSITIONS	PA PB PC PD PE PF PG							
TYPICAL CHEMICAL	С	Si	Mn	Cr	Ni	Мо	V	Other
ANALYSIS OF THE FILLER METAL (%)	0.1	0.32	0.52	9.15	0.65	0.95	0.22	0.04
ALL WELD MECHANICAL PROPERTIES	Heat R _I),2 Rm	Rm A5 Impact Energy (J) ISO-V				
	Treatment M		Pa MPa	(%)	RT			
	730°C- 760	°C /3h 52	0 750	19		200		
REDRYING TEMPERATURE	Not required							

GAS ACCORDING EN 14175 I1