



CEWELD ER 90 S-G (P92)

TYPE	Medium alloyed, high-strength creep resistant 9% Cromium alloy.									
APPLICATIONS	GMAW 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.									
PROPRIÉTÉS	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: G ZCrMoWVNb9 0,5 1,5								
	F-nr	6								
	FM	4								
CONVIENT POUR	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									
AGRÉMENTS	CE									
POSITIONS DE SOUDAGE	PAPBPCPDPEPFPG									
ANALYSE CHIMIQUE TYPIQUE DU MÉTAL D'APPORT (%)	C	Si	Mn	P	S	Cr	Ni	Mo	V	W
	0.1	0.4	0.45	0.008	0.008	8.8	0.5	0.4	0.2	1.6
PROPRIÉTÉS MÉCANIQUES	Heat Treatment		R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V			Hardness	
	730°C- 760°C 2h		690	800	19	RT			HRc	
ETUVAGE	Not required									
TYPICAL QUALITY VALUES AT 600°C	TS = 455 MPa YS = 390 MPa E = 19 %									
GAS ACC. EN ISO 14175	M21									



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Packaging	KG/unit	EanCode
BS-300	15	8720663416872