
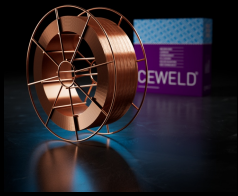




# CEWELD ER 90S-B9 (P91)

TYPE	Medium alloyed, high-strength 9% Chromium alloy.							
APPLICATIONS	Designed for welding equivalent type 91~ 9% Cr Steels modified with small additions of Niobium, Vanadium and Nitrogen to offer improved long term creep properties. This alloy is specially intended for high integrity structural service at elevated temperature such as: Headers, main steam piping and turbine casings, gasification plants etc.							
PROPRIÉTÉS	Filler metal specifically intended for high integrity structural service at elevated temperature so the minor alloy additions responsible for its creep strength are kept above the minimum considered necessary to ensure satisfactory performance.							
CLASSIFICATION	AWS	A 5.28: ER 90S-B91						
	EN ISO	21952-A: G CrMo91						
	W.Nr.	1.4903						
	F-nr	6						
	FM	4						
CONVIENT POUR	<b>P91, 9%Cr1%Mo modified</b> 1.4903, 1.4955 X10CrMoVNb9-1, GX12CrMoVNbN9-1 A 213 T91, A335 P91, A387 Gr91, A 182/A336 F91, 1503 Gr91, AFNOR NF A-49213/A-49219 Gr TU Z 10, CDVNb 09-01							
AGRÉMENTS	CE							
POSITIONS DE SOUDAGE								
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	C	Si	Mn	Cr	Ni	Mo	V	Nb
	0.07	0.4	0.5	9	0.45	0.95	0.2	0.05
PROPRIÉTÉS MÉCANIQUES	Heat Treatment	RP0,2 (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V		Hardness	
	730°C- 760°C 2h	560	780	23	RT		HRc	
ETUVAGE	Not required							
GAS ACC. EN ISO 14175	M21							



# CEWELD ER 90S-B9 (P91)

ER 90S-B9 (P91) 0,8MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663416926
ER 90S-B9 (P91) 1,0MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663416940
ER 90S-B9 (P91) 1,2MM	Packaging	KG/unit	EanCode
	BS-300	15	8720663416988