CEWELD ER 90 S-G (P92)

certilas® THE FILLER METAL SPECIALIST

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	3

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

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

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)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V	Hardness
				RT	
730°C- 760°C 2h	690	800	19	110	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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ER 90 S-G (P92) 1,2MM

Packaging	KG/unit	EanCode
BS-300	15	8720663416872