CEWELD ER 90 S-G (P92) Tig

certilas® THE FILLER METAL SPECIALIST

TYPE

Medium alloyed, high-strength creep resistant 9% Cromium alloy.

TOEPASSINGEN

TIG/GTAW 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.

EIGENSCHAPPEN

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.

CLASSIFICATIE

AWS	A 5.28: ER 90S-G
EN ISO	21952-A: W ZCrMoWVNb 9 0,5 1,5
F-nr	6
FM	3

GESCHIKT VOOR

For matching P92, 9%Cr1.7%W0.5%Mo, creep resisting martensitic steels.
X10CrWMoVNb 9 2
ASTM: A182 grade F92, A213 grade T92, A335 grade P92, A387 grade 92

GOEDKEURINGEN

CE

LASPOSITIES

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

MECHANISCHE WAARDEN

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Hardness
730°C- 760°C 3h	550	630	17	HRc

HERDROGEN

Not required

GAS ACC. EN ISO 14175

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