





TYPE Basic, Cr and Mo-alloyed electrode for heat resistant steels T/P91 and T/P92

APPLICATIONS CEWELD E 9018-B9 is intended for the welding of equivalent T/P91 type CrMo steels modified with minor additions of niobium and vanadium to obtain improved creep rupture properties. These

welding consumables are specifically designed for use in high strength structures at elevated temperatures so that the low alloy additions responsible for creep rupture strength are kept above

the minimum required for satisfactory performance.

Suitable for: Headers, main steam pipes and turbine casings in fossil fuel power stations. Oil refineries, coal liquefaction and gasification plants. Preheat and interpass temperature 200°C -

300°C.

PROPERTIES CEWELD E 9018-B9 is modified with minor additions of niobium and vanadium to achieve improved

creep rupture properties. It is specifically designed for use in high strength structures at elevated temperatures so that the low alloy additions responsible for creep rupture strength can meet the strength requirements. In this case the welds are weakest in the area of the softened (intercritical)

HAZ of the base material.

CLASSIFICATION AWS A 5.5; E 9018-B91

EN ISO 3580-A: E CrMo91 B42 H5

F-nr 4 FM 4

SUITABLE FOR 9%Cr, 1%Mo, VNb

1.7389, 1.7386, 1.4922, 1.4935, 1.4904, 1.4903, 1.4955,

X11CrMo9-1, X12CrMo9.1, X20CrMoV10-1, X10CrMoVNb9-1, GX12CrMoVNbN9-1

ASTM Grade 91, T91, P91, F91, FP91, WP91,C12A

STPA28, STBA28

APPROVALS CE

WELDING POSITIONS



TYPICAL CHEMICAL ANALYSIS OF WELD METAL

(70)

С	Si	Mn	Р	S	Cr	Ni	Мо	V	Nb	N
0.09	0.3	0.9	0.01	0.01	9	0.6	0.9	0.2	0.06	0.04

MECHANICAL PROPERTIES

Heat	R _{P0,2} (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V	Handmass
Treatment				RT	Hardness
As Welded 550 700 21		55	HRc		

REDRYING 400°C / 1 hr

GAS ACC. EN ISO 14175





CEWELD E 9018-B9

E 9018-B9 2,5 X 300MM	Packaging	KG/unit	EanCode		
	Can	2,5	8720663400505		
E 9018-B9 3,2 X 350MM	Packaging	KG/unit	EanCode		
	Can	2,6	8720663400536		
E 9018-B9 4,0 X 450MM	Packaging	KG/unit	EanCode		
	Can	3,3	8720663400567		