



Certilas The FILLER METAL SPECIALIST

CEWELD E 9018-B9

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

APPLICATIONS Headers, main steam piping and turbine casings, in fossil fueled power generating plants. Oil

refineries and coal liquefaction and gasification plants. Preheat and Interpass temperature 200°C -

300°C.

PROPERTIES CEWELD E 9018-B9 is designed to weld equivalent 'type T91' CrMo steels modified with small

additions of niobium and Vanadium to give improved long term creep properties. These

consumables are 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. In this case, weldments will be weakest in the softened (intercritical) HAZ region of parent material, as indicated by so-called 'type IV' failure

in transverse weld creep tests.

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

(%)

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	Handa
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		