





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 fuelled power generating plants. Oil

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

300°C.

PROPRIÉTÉS CEWELD® E 9016-B9 is designed to weld equivalent 'type T91' T92 CrMo steels modified with small

additions of Tungsten 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: E9016-B91

EN ISO 3580-A: E CrMo91

F-nr 4 FM 4

CONVIENT POUR 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

AGRÉMENTS CE

POSITIONS DE SOUDAGE



TYPICAL CHEMICAL ANALYSIS OF WELD METAL

(%)

С	Si	Mn	Р	S	Cr	Ni	Мо	Nb	V	N
0.1	0.3	0.9	0.008	0.008	9	0.5	1	0.08	0.2	0.03

PROPRIÉTÉS MÉCANIQUES

Heat	R _{P0,2} (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V	Handa
Treatment				RT	Hardness
As Welded	550	680	18	60	HRc

ETUVAGE 400°C / 1 hr

GAS ACC. EN ISO 14175





CEWELD E 9016-B9

E 9016-B9 3,2 X 350MM

Packaging	KG/unit	EanCode		
VAC pack	1,9	8720663401465		