



Brinell Hardness

Avg. 260

CEWELD AA 90S-B9

TYPE Metal core wire for heat and creep resistant applications.(Typ CrMo 91)

APPLICATIONS CEWELD AA 90S-B9 is for welding 9-12% Cr Steel like P91/T91. Headers, main steam piping and

turbine casings, in fossil fuelled power generating plants. Oil refineries and coal liquefaction and

gasification plants.

PROPERTIES AA 90S-B9 is designed to weld equivalent 'type 91' P91 9CrMo steels modified with small additions

of niobium, vanadium and nitrogen 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 5.28: ~ER 90S-B9

EN ISO 17634-B: 9C1MV

F-nr 6 FM 4

SUITABLE FOR 1.4903

X10CrMoVNb9-1, GX12CrMoVNbN9-1

0.3

MPa

650

ASTM A 335 Gr. P91, A 336 Gr. F91, A 369 Gr. FP91, A 387 Gr. 91, A 213 Gr. T91, A 182

Mn

MPa

780

AFNOR NF A-49213/A-49219 Gr TU Z 10, CDVNb 09-01

APPROVALS CE

WELDING POSITIONS



Treatment

760°C±15°C /2h

TYPICAL CHEMICAL ANALYSIS OF WELD METAL

(%)

ALL WELD MECHANICAL PROPERTIES

	'	'	'	' '		'	
Heek	Ιp	D== A1	- I	Impact Energy (J) ISO-V	1	Handmass	
неаг	I\D0 2	I KM I A:)	Impact Energy (J) 150-v		Hardness	

RT

27

REDRYING TEMPERATURE Not required

GAS ACCORDING EN 14175 M21





CEWELD AA 90S-B9

AA 90S-B9 1,2MM

Type	KG/unit	EANCode
BS-300	15	8720663401984