CEWELD AA 90S-B9

certilas® THE FILLER METAL SPECIALIST

TYPE	Metal core wire for heat and creep resistant applications
TOEPASSINGEN	Headers, main steam piping and turbine casings, in fossil fuelled power generating plants. Oil refineries and coal liquefaction and gasification plants.
EIGENSCHAPPEN	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.

CLASSIFICATIE

AWS	A 5.28: ~ER 90S-B9
EN ISO	17634-B: 9C1MV
F-nr	6
FM	4

GESCHIKT VOOR

1.4903
X10CrMoVNb9-1, GX12CrMoVNbN9-1
ASTM A 335 Gr. P91, A 336 Gr. F91, A 369 Gr. FP91, A 387 Gr. 91, A 213 Gr. T91, A 182
AFNOR NF A-49213/A-49219 Gr TU Z 10, CDVNb 09-01

GOEDKEURINGEN

CE

LASPOSITIES

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	Si	Mn	Cr	Ni	Mo	V
0.1	0.3	1	9	0.3	1	0.2

MECHANISCHE WAARDEN

Heat Treatment	$R_{P0,2}$ (MPa)	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V	Hardness
				RT	
760°C±15°C 2h	650	780	17	27	260 HB

HERDROGEN

Not required

GAS ACC. EN ISO 14175

M21

CEWELD AA 90S-B9

AA 90S-B9 1,2MM

Packaging	KG/unit	EanCode
BS-300	15	8720663401984