CEWELD[®]

9015-B9

CATEGORY	SMAW Stick Electrodes							
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.							
PROPERTIES	9015-B9 is designed to weld equivalent 'type T91' T92 CrMo steels modified with small additions of vanadium and tungsten 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 9015-B9 EN ISO 3580-A: E CrMo91 B 42 H5							
SUITABLE FOR	X11CrMo9-1, X12CrMo9.1, X20CrMoV10-1, 1.7389, 1.7386, 1.4922, 1.4935, 1.4904 ASTM: A 199Gr.T9, A335Gr. P9, A351, A213/213M, P91, P92							
APPROVALS	CE approved							
WELDING POSITIONS:								

ANALYSES %

С	Mn	Si	Cr	Ni	Мо	V	Ν	Nb
0.1	0.8	0.35	9.0	0.7	1.0	0.2	0.04	0.05

PWHT: 750°C/2hr, oven cooling till 300°C and then cooled on air.

MECHANICAL PROPERTIES

Heat	R _{P0,2}	Rm	A5	Impact Energy (J) ISO-V			Hardness
Treatment	(N/mm ²)	(N/mm ²)	(%)	+20°C	-40°C	-60°C	HRc / HV
AW	>650	760	>17	>70 J			

AW = as welded

WELDING PARAMETERS / PACKING

	Welding Parameters		Packing			
D (mm)	Length (mm)	Current (A)	kg / can	kg / 6pack	kg / 1000	
2.5	350	70-110	2.4	14.4	19.8	
3.2	350	95-150	2.4	14.4	36.4	
4.0	350450	130-190	3.0	18	66.7	

REDRYING TEMPERATURE 350°C/1hr