

Standards:

EN ISO 3580-A: E CrMo 91 B 42
 EN 1599: E CrMo 91 B 42
 AWS SFA-5.5: E 9018-B9
 Mat.-No.: 1.4903

Recovery: 130%

capilla® P 91

Product description:

CrMoVNb-alloyed basic coated stick electrode, good welding characteristics producing a creep and rupture resistant high temperature weld metal

Applications:

Designed for welding of quenched and tempered 9%-Cr-steels.

Base materials:

1.4903 (X10CrMoVNb 9 1),
 ASTM A213-T91; ASTM A335-P91,
 ASTM A387 Gr. 91, ASTM A182 F91.

Typical weld metal composition:

[wt. - %]

	C	Mn	Si	Cr	Mo	Ni	V	Nb	Fe
Min.		0,6		8,5	1	0,6	0,18		
Max.	0,1	0,7	0,3	9,5	1,2	0,8	0,24	0,07	Bal.

Mechanical properties:

(Heat treatment: 760°C/2h; Minimum values at ambient temperature)

Tensile strength R_m :	680	[MPa]
Yield strength $R_{p0.2}$:	550	[MPa]
Yield strength $R_{p1.0}$:	-	[MPa]
Elongation (L=5d):	17	[%]
Impact strength (ISO-V):	47	[J]

Positions: all except PD, PE and PG

Redrying: min. 320°C/2h

Dimension:

Ø [mm]	Length [mm]	Welding current [A]	Polarity
2,5	350	60 – 90	= (+)
3,25	350	80 – 120	
4,0	350	110 – 170	

also available:

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Capilla P 91 MAG
 Capilla P 91 WIG
 Capilla G P91 BM (tubular wire)