




# CEWELD E 9016-B9

TYPE	Basic, Cr and Mo-alloyed electrode for heat resistant steels T/P91 and T/P92																						
ANWENDUNGEN	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.																						
EIGENSCHAFTEN	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.																						
KLASSIFIKATION	<table border="0"> <tr> <td>AWS</td> <td>A 5.5: E9016-B91</td> </tr> <tr> <td>EN ISO</td> <td>3580-A: E CrMo91</td> </tr> <tr> <td>F-nr</td> <td>4</td> </tr> <tr> <td>FM</td> <td>4</td> </tr> </table>	AWS	A 5.5: E9016-B91	EN ISO	3580-A: E CrMo91	F-nr	4	FM	4														
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GEEIGNET FÜR	<b>9%Cr, 1%Mo, VNb</b> 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																						
ZULASSUNGEN	CE																						
SCHWEISSPOSITIONEN																							
TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>C</th> <th>Si</th> <th>Mn</th> <th>P</th> <th>S</th> <th>Cr</th> <th>Ni</th> <th>Mo</th> <th>Nb</th> <th>V</th> <th>N</th> </tr> </thead> <tbody> <tr> <td>0.1</td> <td>0.3</td> <td>0.9</td> <td>0.008</td> <td>0.008</td> <td>9</td> <td>0.5</td> <td>1</td> <td>0.08</td> <td>0.2</td> <td>0.03</td> </tr> </tbody> </table>	C	Si	Mn	P	S	Cr	Ni	Mo	Nb	V	N	0.1	0.3	0.9	0.008	0.008	9	0.5	1	0.08	0.2	0.03
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As Welded	550	680	18	60		HRc																	
RÜCKTROCKNUNG	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