



# CEWELD AA M CrMo1V

**TYPE** Seamless metal cored wire for M21 shielding gas. (Typ CrMo1V, 1.7745)

**APPLICATIONS** Foundries, production welding

**PROPERTIES** CEWELD® AA MCrMo1V is a metal cored wire with Excellent weld puddle manipulation. Low spatter loss, without slag. Extremely crack resistant. Suitable for economic welding of CrMoV-steels up to 550 °C. Due to the seamless production process the hydrogen content is below 3ml/100g weld metal even after long storage in unconditioned condition. Good gap bridging properties. In the current range (PF) of 85 - 175 A for vertical up seams suitable.

**CLASSIFICATION**

AWS	A 5.28: ER80T15-GM2M H4
EN ISO	17634-A: T Z M M 1 H5
W.Nr.	~1.7745
F-nr	6
FM	4

**SUITABLE FOR** **Typ 1Cr0,5Mo,V ISO 15608: ~5,1**  
 1.7335, 1.7262, 1.7728, 1.7218, 1.7225, 1.7258, 1.7354, 1.7357, 1.7745, 1.7706, 1.7733  
 13CrMo4-5, 15CrMo5, 15 CrMoV 5 10, 16CrMoV4, 25CrMo4, 42CrMo4, 24CrMo5, G22CrMo5-4,  
 G17CrMo5-5, 24CrMoV5-5, G17CrMoV5-10  
 ASTM A 182 Gr. F12; A 193 Gr. B7; A 213 Gr. T12; A 217 Gr. WC6; A 234 Gr. WP11; A335 Gr. P11,  
 P12; A 336 Gr. F11, F12; A 426 Gr. CP12

**APPROVALS**

**WELDING POSITIONS**



**TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)**

C	Si	Mn	P	S	Cr	Ni	Mo	V
0.1	0.3	0.9	0.015	0.015	1.1	0.3	1	0.25

**MECHANICAL PROPERTIES**

Heat Treatment	R <sub>p0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Impact Energy (J) ISO-V		Hardness
				RT		
690°C±15°C 6h	550	700	20	70		HRc

**REDRYING** Not required

Heat Treatment: Quenched and tempered ( 30 min at 950° C / oil and 16 h at 700°C furnace cooling to 300° C ) R<sub>p0,2</sub> >440 MPa R<sub>m</sub> 590-780 MPa A<sub>5</sub> > 15 Quenched and tempered ( 30 min at 950° C / air and 16 h at 700°C furnace cooling to 300° C ) R<sub>p0,2</sub> >440 MPa R<sub>m</sub> 590-780 MPa A<sub>5</sub> > 15

**GAS ACC. EN ISO 14175** M21