



CEWELD AA B690

TYPE Seamless, high-strength flux-cored wire for M21 with basic slag

APPLICATIONS Crane-, plant-, craft- and steel construction, pipe work, foundries

PROPERTIES Absolutely crack resistant weld metal conditioned by the high-basic slag in combination with extreme low hydrogen content. Therefore, suitable for the economic processing of high-strength, low temperature fine-grained structural steels with $R_{p0,2} > 690$ MPa. X-ray-proof seams with low spatter loss. Stable, mechanical property values of the weld metal also at high heat input up to 18 kJ/cm.

CLASSIFICATION

AWS	A 5.29: E110T5-K4M H4
EN ISO	18276-A: T 69 6 Mn2NiCrMo B M21 3 H5
F-nr	6
FM	2

SUITABLE FOR

Reh < 690 MPa Iso 15608: 2.2 u 3.2 (460 < Reh ≤ 690(700) MPa)
 1.8914, 1.8927, 1.8931, 1.8928, 1.8974, 1.7147, 1.7149, 1.8734
 S620Q, S620QL, S690Q, S690QL, S620QL1-S690QL1, 20MnCr65, 28CrMn4-3
 L480 - L550, X65, X80, X90, X100
 ASTM A 514 Gr. F, H, Q; A 709 Gr. 100 Type B, E, F, H, Q; A 709 Gr. HPS 100W
 Weldox 700, Dillimax 690, Hardox, Naxtra 63, Naxtra 70, Optim 700 mc plus, Weldox 500, Hardox, Domex 460 MC, Domex 500 MC, Domex 550 MC, Domex 600 MC, Domex 650 MC, Domex 700 MC, Hardox 400, Strenx 700; XAR 400, Dillidur 400, Oceanfit 100, Oceanfit 690, alform plate 620 M, 700 M, aldur 620 Q, 620 QL, 620 QL1, aldur 700 Q, 700 QL, 700 QL1, Salzgitter S700MC, Ympress Steel E690 TM, S700MC, Amstrong Ultra 650MC, 650 Mct, 700 MC.....

APPROVALS CE

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF WELD METAL (%)

C	Si	Mn	P	S	Cr	Ni	Mo
0.05	0.4	1.6	0.015	0.015	0.5	2.2	0.5

MECHANICAL PROPERTIES

Heat Treatment	R _{p0,2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V		Hardness
				-40°C	-60°C	
As Welded	740	850	19	85	75	HRc
570°C- 620°C 1h	650	740	22	80	55	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 M21



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AA B690 1,2MM

Packaging	KG/unit	EanCode
D-200	20 (4x5)	8720663423160
K-300	16	8720663423177