



CEWELD ER 120 S-G

TYPE Extreme high tensile strength alloy with excellent impact properties for fine grain steels exceeding 890 N/mm² yield strength. (ER 120, 89 6)

APPLICATIONS CEWELD® ER 120 S-G is well suited for welding materials such as S960QL - S1100Q and other similar fine-grained cold-tough steels. Offshore, crane construction etc.

PROPERTIES CEWELD® ER 120 S-G is an extremely crack-resistant alloy with high mechanical properties and excellent welding properties. High impact strength at sub-zero temperatures down to -60 °C.

CLASSIFICATION

AWS	A 5.28: ER 120S-G
EN ISO	16834-A: G 89 6 M21 Mn4Ni2CrMo
F-nr	6
FM	2

SUITABLE FOR **Reh ≤ 960 MPa ISO 15608: ~3.1, 3.2 (Reh > 690 MPa)**
 1.8796, 1.8925, 1.8940, 1.8983, 1.8797, 1.8933, 1.8934, 1.8941, 1.8997
 S690Q-S890Q, S690QL-S890QL, S960Q, S960QL, S1100QL, S1300QL
 ASTM A 709 Gr. 100 Type B, E, F, H, Q, HPS 100W
 N-A-XTRA M 700, PAS 700, alform 700 M, alform 900 x-treme, alform® 960 x-treme, Strenx 700-960, DILLIMAX 700-960

APPROVALS CE

WELDING POSITIONS

TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)

C	Si	Mn	P	S	Cr	Ni	Mo
0.1	0.6	1.8	0.01	0.01	0.3	2.2	0.6

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	980	1080	15	100	73	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 M21



CEWELD ER 120 S-G

ER 120 S-G 0,8MM

Packaging	KG/unit	EanCode
BS-300	15	8720663417190