



# CEWELD ER 120 S-G

TYPE	Extreme high tensile strength alloy with excellent impact properties for fine grain steels exceeding 890 N/mm <sup>2</sup> yield strength.								
APPLICATIONS	Welding materials such as S960QL – S1100Q and other similar fine grain cold tough steels. Offshore, crane building etc.								
PROPERTIES	Extreme crack resistant alloy with high mechanical properties and excellent welding characteristics. High Impact strength at sub zero temperatures down to -60 °C. Applications include structural, oil and gas and offshore steelwork.								
CLASSIFICATION	<table border="0"> <tr> <td>AWS</td> <td>A 5.28: ER 120S-G</td> </tr> <tr> <td>EN ISO</td> <td>16834-A: G 89 4 M21 Mn4Ni2,5CrMo</td> </tr> <tr> <td>F-nr</td> <td>6</td> </tr> <tr> <td>FM</td> <td>2</td> </tr> </table>	AWS	A 5.28: ER 120S-G	EN ISO	16834-A: G 89 4 M21 Mn4Ni2,5CrMo	F-nr	6	FM	2
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EN ISO	16834-A: G 89 4 M21 Mn4Ni2,5CrMo								
F-nr	6								
FM	2								
SUITABLE FOR	<b>Reh ≤ 960 MPa ISO 15608: ~3.1, 3.2 (Reh &gt; 690 MPa)</b> 1.8796, 1.8925, 1.8940, 1.8983, 1.8797, 1.8933, 1.8934, 1.8941, 1.8997 S690Q-S890Q, S690QL-S890QL, S960Q, S960QL, S720MC 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 <sub>P0,2</sub> (MPa)	R <sub>m</sub> (MPa)	A <sub>5</sub> (%)	Impact Energy (J) ISO-V	Hardness
				-40°C	
As Welded	900	960	15	100	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