




CEWELD AlMg 4.5Mn

TYPE	Mig aluminium welding wire with high corrosion resistance																
APPLICATIONS	Filler metal for Magnesium and Manganese alloyed Aluminium with a maximum Magnesium content of 5%. This alloy shows very good mechanical properties that make it ideal for applications in shipyards, in car and railway industry and constructions of reservoirs and tanks.																
PROPERTIES	Excellent weldability and good mechanical strength combined with good corrosion resistance against seawater are typical for this alloy. The weld deposit is free from porosity due to the special shaving process and cleaning method during production. AlMg4,5Mn is one of the highest grades within the range of aluminum alloys and covers a weight range of alloys. Thicker sections should be preheated (150°C) prior to welding. Qualified by Lloyds for manual and (semi)automatic welding.																
CLASSIFICATION	<table border="0"> <tr> <td>AWS</td> <td>A 5.10: ER5183</td> </tr> <tr> <td>EN ISO</td> <td>18273: S Al 5183 (AlMg4,5Mn0,7(A))</td> </tr> <tr> <td>W.Nr.</td> <td>3.3548</td> </tr> <tr> <td>F-nr</td> <td>22</td> </tr> </table>	AWS	A 5.10: ER5183	EN ISO	18273: S Al 5183 (AlMg4,5Mn0,7(A))	W.Nr.	3.3548	F-nr	22								
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SUITABLE FOR	<p>Aluminium alloys:</p> <p>AlMg4,5Mn, AlMg5, AlMg2Mn0,8, AlZnMg1, AlZnMgCu0,5, AlMgSi0,5, AlMgSi1,AlMgSi0,5, G-AlMg10, G-AlMg5, G-AlMg3Si, G-AlMg5Si, 3.2315, 3.3545, 3.3547, 3.3535, 3.3555, 3.3206, 3.3210, 3.2315, 3.3211, 3.4335, EN AW 5086, EN AW 5083, EN AW 5019, EN AW 5019, EN AW 6060, EN AW 6005A, EN AW 6082, EN AW 6061, EN AW 7020, EN AC 51300, EN AC 51400,EN AW-6082</p>																
APPROVALS	CE, Lloyds: MATS/NTH-1043/7/1																
WELDING POSITIONS																	
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20%;">Mn</td> <td style="width: 20%;">Cr</td> <td style="width: 20%;">Ti</td> <td style="width: 20%;">Al</td> <td style="width: 20%;">Mg</td> </tr> <tr> <td>0.7</td> <td>0.1</td> <td>0.15</td> <td>Rem.</td> <td>4.5</td> </tr> </table>	Mn	Cr	Ti	Al	Mg	0.7	0.1	0.15	Rem.	4.5						
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Heat Treatment	R _{P0,2} (MPa)					R _m (MPa)	A ₅ (%)		Impact Energy (J) ISO-V		Hardness						
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As Welded	140	300	18	30		HRc											
REDRYING	Not required																
GAS ACC. EN ISO 14175	11, 13																