



CEWELD AlMg 4.5Mn Tig

certilas® THE FILLER METAL SPECIALIST

TYPE	Tig aluminium welding wire with high corrosion resistance												
ANWENDUNGEN	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.												
EIGENSCHAFTEN	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 huge range of alloys. Thicker sections should be preheated (150°C) prior to welding.												
KLASSIFIKATION	AWS A 5.10: ER5183 EN ISO 18273: S Al 5183 (AlMg4,5Mn0,7(A)) F-nr 22												
GEEIGNET FÜR	Aluminium alloys: AlMg4,5Mn, AlMg5, AlMg2Mn0,8, AlZnMg1, AlZnMgCu0,5, AlMgSi0,5, AlMgSi1, G-AlMg10, G-AlMg5, G-AlMg3Si, G-AlMg5Si, 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,												
ZULASSUNGEN	CE												
SCHWEISSPOSITIONEN													
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	<table><thead><tr><th>Mn</th><th>Cr</th><th>Al</th><th>Mg</th></tr></thead><tbody><tr><td>0.7</td><td>0.1</td><td>Rem.</td><td>4.5</td></tr></tbody></table>	Mn	Cr	Al	Mg	0.7	0.1	Rem.	4.5				
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MECHANISCHE GÜTEWERTE	<table><thead><tr><th>Heat Treatment</th><th>R_{P0,2} (MPa)</th><th>R_m (MPa)</th><th>A5 (%)</th><th>Impact Energy (J) ISO-V RT</th><th>Hardness</th></tr></thead><tbody><tr><td>As Welded</td><td>140</td><td>300</td><td>18</td><td>30</td><td>HRc</td></tr></tbody></table>	Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A5 (%)	Impact Energy (J) ISO-V RT	Hardness	As Welded	140	300	18	30	HRc
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RÜCKTROCKNUNG	Not required												
GAS ACC. EN ISO 14175	I1, I3												