



CEWELD AlMg 4.5Mn Tig

certilas® THE FILLER METAL SPECIALIST

TYPE	Tig 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 huge range of alloys. Thicker sections should be preheated (150°C) prior to welding.									
CLASSIFICATION	AWS A 5.10: ER5183 EN ISO 18273: S Al 5183 (AlMg4,5Mn0,7(A)) F-nr 22									
SUITABLE FOR	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,									
APPROVALS	CE									
WELDING POSITIONS										
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	Si	Mn	Cr	Ti	Fe	Al	Mg			
	0.07	0.7	0.1	0.09	0.15	Rem.	4.5			
ALL WELD MECHANICAL PROPERTIES	Heat Treatment	R _{P0,2} MPa	R _m MPa	A ₅ (%)	Impact Energy (J) ISO-V RT 30					
REDRYING TEMPERATURE	Not required									
GAS ACCORDING EN 14175	I1, I3									