

## CEWELD AlMg 4.5Mn Tig



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 weldabillity 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

PA PB PC PD PE PF PF

TYPICAL CHEMICAL ANALYSIS OF THE FILLER

METAL (%)

Mn	Cr	Al	Mg
0.7	0.1	Rem.	4.5

MECHANICAL PROPERTIES

Heat	R <sub>P0,2</sub>	Rm (MPa)	A5 (%)	Impact Energy (J) ISO-V	Hardness
Treatment	(MPa)			RT	
As Welded	140	300	18	30	HRc

REDRYING Not required

GAS ACC. EN ISO 14175 11, I3