



CEWELD AlMg 4.5Mn

TYPE	Mig aluminium welding wire with high corrosion resistance								
TOEPASSINGEN	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.								
EIGENSCHAPPEN	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.								
CLASSIFICATIE	AWS	A 5.10: ER5183							
	EN ISO	18273: S Al 5183 (AlMg4,5Mn0,7(A))							
	W.Nr.	3.3548							
	F-nr	22							
GESCHIKT VOOR	Aluminium alloys: 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								
GOEDKEURINGEN	CE, Lloyds: MATS/NTH-1043/7/1								
LASPOSITIES	      								
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	Mn	Cr	Ti	Al	Mg				
	0.7	0.1	0.15	Rem.	4.5				
MECHANISCHE WAARDEN	Heat Treatment	R _{P0,2} (MPa)	R _m (MPa)	A ₅ (%)	Impact Energy (J) ISO-V	Hardness			
					RT				
	As Welded	140	300	18	30	HRc			
HERDROGEN	Not required								
GAS ACC. EN ISO 14175	I1, I3								