



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	AWS	A 5.10: ER5183				
	EN ISO	18273: S Al 5183 (AlMg4,5Mn0,7(A))				
	W.Nr.	3.3548				
	F-nr	22				
SUITABLE FOR	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					
APPROVALS	CE, Lloyds: MATS/NTH-1043/7/1					
WELDING POSITIONS						
TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)	Mn	Cr	Ti	Al	Mg	
	0.7	0.1	0.15	Rem.	4.5	
MECHANICAL PROPERTIES	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
REDRYING	Not required					
GAS ACC. EN ISO 14175	I1, I3					



CEWELD AlMg 4.5Mn

ALMG 4.5MN 0,8MM

Packaging	KG/unit	EanCode
BS-300	7	8720663406996
D-100	0,50	8720663407009
D-200	2	8720663407016

ALMG 4.5MN 1,0MM

Packaging	KG/unit	EanCode
BS-300	7	8720663407023
D-100	0,50	8720663407030
D-200	2	8720663407047

ALMG 4.5MN 1,2MM

Packaging	KG/unit	EanCode
BS-300	7	8720663407061

ALMG 4.5MN 1,6MM

Packaging	KG/unit	EanCode
BS-300	7	8720663407078

ALMG 4.5MN 2,4MM

Packaging	KG/unit	EanCode
BS-300	7	8720663407085