

Classifications							
EN ISO 18273-A		EN ISO 18273-B			AWS A5.10		
S Al 5183 (AlMg4.5Mn0.7(A))		-			ER5183		
Characteristics and typical fields of application							
Solid wire for AlMg alloys. Seawater resistant weld metal. Thorough cleaning of the workpiece bevels is necessary. Thicker plate materials require preheating to 150 °C (302 °F).							
Base materials							
AlMg 4.5 Mn	3.3547	EN AW-5083 [AlMg 4.5 Mn 0.7]					
AlMg 4 Mn	3.3545	EN AW-5086 [AlMg 4]					
AlMg 5	3.3555	EN AW-5019 [AlMg 5]					
AlMgSi 0.5	3.3206	EN AW-6060 [AlMgSi]					
AlMgSi 0.7	3.3210	EN AW-6005A [AlSiMg(A)]					
AlMgSi 1	3.2315	EN AW-6082 [AlSi 1 MgMn]					
AlMg 1 SiCu	3.3211	EN AW-6061 [AlMg 1 SiCu]					
AlZn 4.5 Mg	3.4335	EN AW-7020 [AlZn 4.5 Mg 1]					
G-AlMg 5	3.3561	EN AC-51300					
G-AlMg 5 Si	3.3261	EN AC-51400					
Typical analysis of solid wire (wt.-%)							
Al	Mn	Cr	Mg	Ti	Si	Zn	Cu
bal.	0.5 - 1.0	0.05 - 0.25	4.3 - 5.2	< 0.15	< 0.4	< 0.25	< 0.1
Mechanical properties of all-weld metal							
Yield strength R _{p0.2}		Tensile strength R _m			Elongation A (L ₀ =5d ₀)		
MPa		MPa			%		
5		275			17		
Operating data							
	Ø (mm)		Shielding gas: (EN ISO 14175)			Polarity: DC (+)	
	1.0		I1, I3				
	1.2		Base material should be cleaned near the seam. Pre-heating 150 °C for plates > 15 mm				
1.6							
Approvals							
TÜV (2195.) • DB (61.132.03) • GL • LR • DNV • WIWEB • BV							