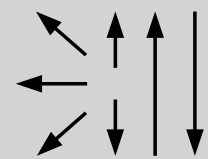


Classifications					
<b>EN ISO 18273</b>		<b>AWS A5.10</b>			
S Al 5183 (AlMg4.5Mn0.7(A))		ER5183			
Characteristics and typical fields of application					
Aluminium TIG rod for welding of AlMg alloys. The weld metal is resistant against sea water. Base material should be cleaned near the seam. Pre-heating 150 °C for plates > 15 mm					
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
wt.-%	bal.	0.5 – 1.0	0.05 – 0.25	4.3 – 5.2	< 0.15
Mechanical properties of all-weld metal					
Condition	Yield strength R <sub>p0.2</sub>		Tensile strength R <sub>m</sub>		Elongation A (L <sub>0</sub> =5d <sub>0</sub> )
	MPa		MPa		%
u	≥ 130		≥ 275		≥ 18
u	untreated, as welded				
Operating data					
	<b>Polarity:</b> AC		<b>Shielding gases:</b> (EN ISO 14175) I1		<b>ø (mm)</b>
					1.6
					2.0
					2.4
				3.0	
Base material should be cleaned near the seam. Pre-heating 150 °C for plates > 15 mm					
Approvals					
TÜV (02319.), DB (61.014.05/09), CE					