

OK Tigrod 5183

OK Tigrod 5183 was developed to provide the highest strengths possible in the as welded condition of alloy AA 5083 and other similar high magnesium alloys. The more common OK Tigrod 5356 will typically fail to meet the as-welded tensile requirements of AA 5083. The alloy is typically utilised in marine and structural applications where high strengths, high fracture toughness for impact resistance and exposure to corrosive elements are important. The alloy is not recommended for elevated temperature applications due to its susceptibility to stress corrosion cracking. The alloy is non-heat treatable.

Specifikace	
Klasifikace	SFA/AWS A5.10 : R5183 EN ISO 18273 : S Al 5183 (AlMg4,5Mn0,7(A)) JIS Z 3232 : A5183
Schválení	ABS : R 5183 CE : EN 13479 CWB : ER5183 DB : 61.039.04 JIS : JIS Z 3232 NAKS/HAKC : 3.2MM NAKS/HAKC : 4.0mm VdTÜV : 04667

Typ legování	AlMgMn
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Typické vlastnosti v tahu			
Podmínky	Mez skluzu	Mez pevnosti v tahu	Prodloužení
Po svaení	140 MPa	290 MPa	25 %

Vrubová houževnatost		
Podmínky	Testovací teplota	Vrubová houževnatost
Po svaení	20 °C	90 J

Typické složení drátu %								
Mn	Si	Cr	Al	Cu	Ti	Zn	Fe	Mg
0.65	0.04	0.08	94.200	0.01	0.100	0.01	0.13	4.9