

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.

Specifications	
Classifications	SFA/AWS A5.10 : R5183 EN ISO 18273 : S Al 5183 (AlMg4,5Mn0,7(A)) JIS Z 3232 : A5183-BY-3.2
Approvals	ABS : RC1 ABS : R 5183 BKI : RC1 CE : EN 13479 CWB : R5183 DB : 61.039.04 JIS : A5183-BY-3.2 LR : RC1/l-1m NAKS/HAKC : 3.2 - 4.0 MM UKCA : EN 13479 VdTÜV : 04667

Approvals are based on factory location. Please contact ESAB for more information.

Typical Tensile Properties			
Condition	Yield Strength	Tensile Strength	Elongation
As Welded	140 MPa (20 ksi)	290 MPa (42 ksi)	25 %

Typical Charpy V-Notch Properties		
Condition	Testing Temperature	Impact Value
As Welded	20 °C (68 °F)	90 J (67 ft-lb)

Typical Wire Composition %								
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