



Changzhou Giant Welding Co.,Ltd
www.giantweld.com

Standard: AWS A5.10 ER5183	Chemical Composition %									
	Si	Fe	Cu	Mn	Zn	Mg	Ti	AL	Other Each	Other Total
Grade ER5183	≤ 0.4	≤ 0.4	≤ 0.1	0.5 – 1.0	≤ 0.25	4.3 – 5.2	≤ 0.15	Rest	≤ 0.05	≤ 0.15
Type	Spool (MIG)					Tube (TIG)				
Specification (MM)	0.8、0.9、1.0、1.2、1.6、2.0					1.6、2.0、2.4、3.2、4.0、5.0				
Package	S100/0.5kg S270,S300/6kg-7kg					S200/2kg S360/20kg 5kg/box 10kg/box length :1000MM				
Mechanical Properties	Fusion Temperature ℃		Electrical IACS	Heat W/m.k		Tensile Mpa		Yield Mpa		Elongation %
	575 – 640		29%	2.66		275 – 300		130 – 160		15 – 25
	Diameter (MM)		1.2		1.6			2.0		
MIG Welding	Welding Current - A		180 – 300		200 – 400			240 – 450		
	Welding Voltage- V		18 – 28		20 – 24			22 – 34		
TIG Welding	Diameter (MM)		1.6 – 2.4		2.4 – 4.0			4.0 – 5.0		
	Welding Current - A		150 – 250		200 – 320			220 – 400		
Performance characteristics	An aluminum alloy welding wire containing nearly 5% magnesium. Magnesium content in welding is required, Welding base materials 5083 and 5654 with higher magnesium content and higher tensile strength (if tensile strength is required 276MPa or higher) It has excellent resistance to seawater corrosion and low temperature, and the weld is white after anodizing, which can provide good color matching for welded joints.									
Application	It is used for welding aluminum alloy in ship structure, offshore platform, cryogenic container, railway locomotive and automobile industry.									
Notice	1、The product can be kept for two years under the condition of factory packing and sealed, and the packing can be removed for three months under the usual atmospheric environment. 2、Products should be stored in a ventilated, dry and place. 3、After the wire is removed from the package, it is recommended that appropriate dust proof cover be applied over the wire.									

