

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	Re st	≤ 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 °C		Electrical IACS	Heat W/m.k	Tensile Mpa		Yield Mpa		Elongation %		
	575 – 640		29%	2.66	275 – 300		130 – 160		15 – 25		
MIG Welding	Diameter (MM)		1.2		1.6		2.0				
	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	<p>An aluminum alloy welding wire containing nearly 5% magnesium.</p> <p>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)</p> <p>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.</p>										
Application	It is used for welding aluminum alloy in ship structure, offshore platform, cryogenic container, railway locomotive and automobile industry.										
Notice	<p>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.</p> <p>2、Products should be stored in a ventilated, dry and place.</p> <p>3、After the wire is removed from the package, it is recommended that appropriate dust proof cover be applied over the wire.</p>										