



## ***TDS-Technical Data Sheet***

***----Aluminium welding wire***

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### **Identification:**

<b>Product Name</b>	:	Aluminum welding wire
<b>Product Code</b>	:	ER5183 Mig(mm):0.8,0.9,1.0,1.2,1.6, 2.0, 2.4 Tig(mm):1.6,2.0,2.4,3.2,4.0,5.0
<b>Form</b>	:	Solid
<b>Color</b>	:	Silver
<b>Odor</b>	:	Odorless
<b>Usage</b>	:	Welding

### **Introduction:**

Aluminium welding wire is produced in strict accordance with the national standard GB/T 10858-2008 <Aluminium and aluminium alloy wires and rods>, ISO 18273 Welding consumables - Wire electrodes, wires and rods for welding of aluminium and aluminium alloys – classification and AWS A5.10/A5.10M-2012<Welding Consumables - Wire Electrodes, Wires and Rods for Welding of Aluminum and Aluminum-Alloys – Classification>.



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AWS 5-10 ER 5356 is a kind of aluminum alloy welding wire with 5% magnesium. It is a broad spectrum welding, which can be used in jointing, overlaying and casting alloy. And this product has the good characteristic that high strength, corrosion resistance and ductility. This product also can commendably provide color-match for welding after anodic treatment.

### **Application:**

Aluminium welding wire is widely used in Garden furniture, bicycles, Aluminium formwork, Aluminium ladder, car, Aluminium tank truck, scooter, locomotive carriage, pressure vessel, military equipment, shipbuilding, space shuttle, ect

Please used as the operating manual, and keep the shielding gas (argon, helium or argon/helium mixture) using.

### **Typical composition analysis:**

Mg	4.30-5.20%	Ti	<0.15%
Mn	0.50-1.00%	Cr	0.05-0.25%
Fe	<0.40%	Si	<0.40%
Cu	<0.10%	Zn	<0.25%
Be	<0.0003%	Others	<0.05%

### **Feature:**



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— **Excellent physical properties:**

Yield strength Rp0.2, MPa	130
Tensile strength Rm, MPa	275
Elongation A5(Lo=5do), %	18
Test temperature, °C	20

— **Corrosion resistance:** Acid and alkali resistance;

— **Environment friendly:**

<b>Items</b>	<b>Test results</b>	<b>Test method</b>
Lead	N.D.	IEC 62321-5:2013
Cadmium	N.D.	IEC 62321-5:2013
Mercury	N.D.	IEC 62321-5:2013
Hexavalent chromium(Cr VI)	N.D.	IEC 62321:2008
Sum of PPBs		
Monobromobiphenyl	N.D.	
Dibromobiphenyl	N.D.	



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Tribromobiphenyl	N.D.	IEC 62321-6:2015
Tetrabromobiphenyl	N.D.	
Pentabromobiphenyl	N.D.	
Hexabromobiphenyl	N.D.	
Heptabromobiphenyl	N.D.	
Octabromobiphenyl	N.D.	
Nonabromobiphenyl	N.D.	
Decabromobiphenyl	N.D.	
Sum of PBDEs		IEC 62321-6:2015
Monobromodiphenyl ether	N.D.	
Dibromodiphenyl ether	N.D.	
Tribromodiphenyl ether	N.D.	
Tetrabromodiphenyl ether	N.D.	
Pentabromodiphenyl ether	N.D.	
Hexabromodiphenyl ether	N.D.	
Heptabromodiphenyl ether	N.D.	
Octabromodiphenyl ether	N.D.	



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Nonabromodiphenyl ether	N.D.	
Decabromodiphenyl ether	N.D.	

Remark: N.D. = Not detected

### **Handle precaution:**

- 1 The arc welding may hurt you eyes during welding. Please protect your eyes;
- 2 We suggest you to put some dust-proof on the surface of wires after the packages are removed from the products;
- 3 We suggest you to do some processing to the surface of the wired before welding when you use the wires out of storage life;
- 4 Use the product in a well-ventilated area;
- 5 Do not eat, drink and smoke when use it; 6 Wear protective gloves and protective cloth.

### **Storage condition:**

You can do welding directly in effect without any processing before welding after opening the box of products. The products will be effective more than two years on condition that they are of good packing in seal;



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The products should be put to the place where is of aeration and dryness and away from the medium of acid, alkali, oil and so on;

The products should be avoided of crack and damp during delivery so as to avoid destroying the welding spools and impacting the quality of welding wires.

### **Disposal consideration:**

Recycle is the best way.

Large quantities dispose the product must be in according to the local/regional/national/ international regulation.

### **Transport information:**

Not regulated by ADR, IMDG, IATA

Can be transported as common goods.