# MIG Aluminum Welding Wire TIG Aluminum Welding Rod ER5356 ER1100 ER4043 ER5183 Aluminum Alloy Welding Wire

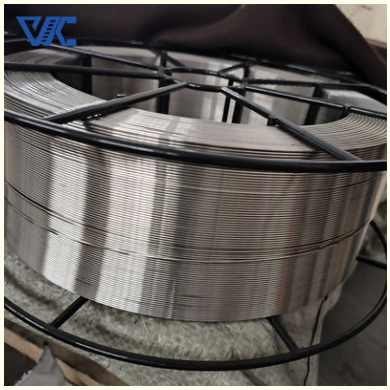
Our Product Introduction

## Basic Information

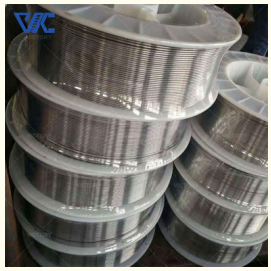
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: ER5356 ER1100 ER4043 ER5183
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag for 0Cr25Al5
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

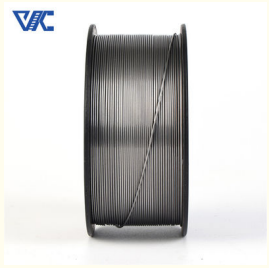
## Product Specification

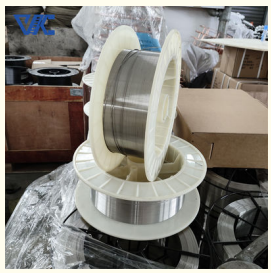
- Material: Aluminum Welding Wire
- Diameter: 0.8mm-6.0mm
- Melting Point: 180°C
- Weight: 0.5kg/2kg/5kg/7kg/9kg/10kg/20kg/75kg
- Model Number: ER5356 ER1100 ER4043 ER5183
- Condition: Hard / Soft
- Application: Transportation Industry, Shipbuilding Industry, Construction Industry
- Highlight: **Iron Chrome Aluminum electrical wire heat resistant**
, **12mm electrical wire heat resistant**, **0Cr25Al5 high heat resistant wire**



## More Images







## Product Description

Our Product Introduction

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## Introduction:

Aluminum welding wire is a filler metal wire used for welding aluminum alloy materials. It has lightweight, high strength, good thermal and electrical conductivity, and excellent corrosion resistance. Aluminum welding wire is designed with a special alloy composition to provide the required mechanical properties and corrosion resistance during the welding process. It is widely used in many fields such as aerospace, automobile manufacturing, shipbuilding, chemical equipment, electronic products, and daily necessities. .

Common brands of aluminum welding wire include but are not limited to the following:
ER1100 (HS301): Pure aluminum welding wire with an aluminum content greater than 99.5%. It is suitable for welding aluminum equipment in the chemical industry. It has good corrosion resistance and high thermal and electrical conductivity.

ER4043: Aluminum-silicon alloy welding wire, containing about 5% silicon, suitable for welding cast aluminum alloys, with low melting point and good fluidity, suitable for ships, motorcycles, chemical industry, food processing, sports equipment and other fields.

ER4047: Aluminum-silicon alloy welding wire, containing about 12% silicon, suitable for welding or surfacing light alloy processing industry. The low melting point and good fluidity make the welding deformation of the base metal very small.

ER5356: Aluminum-magnesium alloy welding wire, containing about 5% magnesium. It is a versatile general-purpose welding material, suitable for welding or surface surfacing of cast and forged aluminum alloys containing 5% magnesium. It has high strength, good forgeability and Corrosion resistance.

## Parameter:

**pure aluminum welding wire: ER1100,ER1070**
**aluminum-copper alloy welding wire: ER2319**
**aluminum-silicon alloy welding wire: ER4043,ER4047,ER4145**
**aluminum-magnesium alloy welding wire: ER5087,ER5356,ER5183,ER5554,ER5556,ER5754**
**aluminum-manganese alloy welding wire: ER3003,ER3103**

| Packing type | Size specification | Packing tool | Weight |
|---|---|---|---|
| **MIG wire (Packing in spool)** | 0.8mm, 0.9mm, 1.0mm, 1.2mm, 1.6mm, 2.0mm | D270mm plastic spool | 7kg |
| | | D300mm plastic spool | 9kg |
| | | D300mm metal spool | 7kg |
| | 0.8mm, 0.9mm,1.0mm,1.2mm | D200mm plastic spool | 2kg |
| | | D100mm plastic spool | 0.5kg |
| **TIG rod (Packing in straight 1000mm)** | 1.6mm, 2.0mm, 2.4mm, 3.0mm, 3.2mm,4.0mm, 5.0mm, 6.0mm | 1000mm length carton | 10kg |
| | | 1000mm length carton | 5kg |
| | | 1000mm length plastic box | 2.5kg |
| **Coil wire (Packing in coil)** | 2.4mm, 3.0mm, 3.2mm, 4.0mm | D450mm coil | 20kg |
| **Drum wire (Packing in drum)** | 1.0mm, 1.2mm, 1.6mm | D520mm drum | 75kg |

| AWS Model | Chemical Composition (%) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Al |
| ER1070 | 0.2 | 0.25 | 0.04 | 0.03 | 0.03 | / | 0.04 | 0.03 | Rest |
| ER1100 | 0.95 | | 0.05-0.20 | 0.05 | / | / | 0.1 | / | Rest |
| ER1188 | 0.06 | 0.06 | 0.005 | 1-1.5 | 0.01 | / | 0.03 | 0.01 | Rest |
| ER2319 | 0.2 | 0.3 | 5.8-6.8 | 0.2-0.4 | / | / | 0.1 | 0.1-0.2 | Rest |
| ER3003 | 0.6 | 0.7 | 0.05-0.2 | 1-1.5 | / | / | 0.1 | / | Rest |
| ER3103 | 0.5 | 0.7 | 0.1 | 0.9-1.5 | 0.3 | 0.1 | 0.2 | 0.1 | Rest |
| ER4043 | 4.5-6.0 | 0.8 | 0.3 | 0.15 | 0.02 | / | 0.1 | 0.2 | Rest |
| ER4047 | 11-13 | 0.8 | 0.3 | 0.15 | 0.1 | / | 0.2 | 0.15 | Rest |
| ER4145 | 9.3-10.7 | 0.8 | 3.3-4.7 | 0.15 | 0.15 | 0.15 | 0.2 | / | Rest |
| ER5087 | 0.25 | 0.4 | 0.05 | 0.7-1.1 | 4.5-5.2 | 0.05-0.25 | 0.25 | 0.15 | Rest |
| ER5154 | 0.25 | 0.4 | 0.1 | 0.1 | 3.1-3.8 | 0.15-0.35 | 0.2 | 0.2 | Rest |
| ER5183 | 0.3 | 0.3 | 0.03 | 0.5-1.0 | 4.5-5.1 | 0.05 | 0.1 | 0.03 | Rest |
| ER5356 | 0.25 | 0.4 | 0.1 | 0.05-0.20 | 4.5-5.5 | 0.05-0.2 | 0.1 | 0.05-0.2 | Rest |
| ER5454 | 0.25 | 0.4 | 0.1 | 0.5-1.0 | 2.4-3.0 | 0.05-0.2 | 0.25 | 0.2 | Rest |
| ER5554 | 0.25 | 0.4 | 0.1 | 0.5-1.0 | 2.4-3.0 | 0.05-0.2 | 0.25 | 0.05-0.20 | Rest |
| ER5556 | 0.25 | 0.4 | 0.1 | 0.5-1.0 | 4.7-5.5 | 0.05-0.2 | 0.25 | 0.05-0.20 | Rest |
| ER5754 | 0.4 | 0.4 | 0.1 | 0.5 | 2.6-3.6 | 0.3 | 0.2 | 0.15 | Rest |

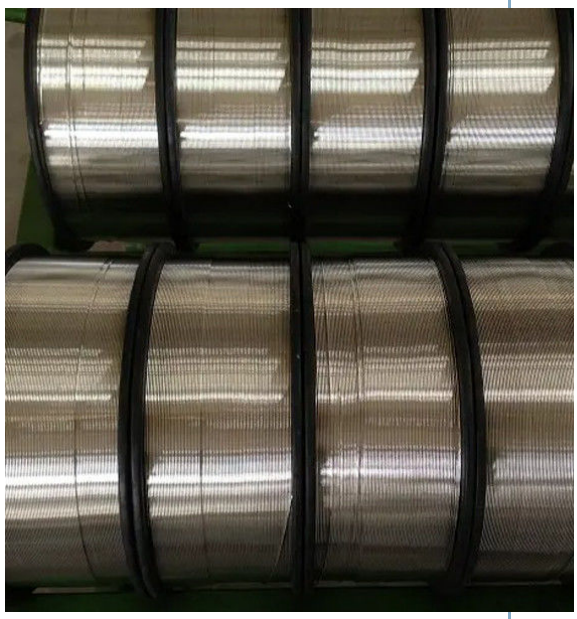
## Feature:

Good alloy properties: Aluminum alloy welding wire has good mechanical and physical properties, including high strength and corrosion resistance.
Surface polishing degree: The surface polishing degree of aluminum welding wire depends largely on the performance and quality of the original aluminum material.

Processing method: Usually aluminum welding wire is drawn from aluminum wire with a diameter of about 9mm.
Low melting point and good fluidity: Some aluminum welding wires, such as ER4043, contain about 5% silicon, have a low melting point and good fluidity, and are suitable for welding a variety of aluminum alloys.

## Application:

Transportation industry: Aluminum welding wire is used in the welding of automobiles, trucks, trailers, bicycle frames, and in the manufacture and repair of aircraft components.
Shipbuilding industry: In the process of shipbuilding and ship repair, aluminum welding wire is used for the welding of hull structures and related aluminum alloy components.
Home appliance industry: Aluminum welding wire is suitable for the manufacture of home appliances, such as refrigerators, air conditioners, etc. These products usually require good thermal conductivity and corrosion resistance.
Construction industry: used for welding aluminum alloy doors and windows, building panels and other decorative structures.
Chemical and food processing: Aluminum welding wire is used in the manufacture and maintenance of chemical industry and food processing equipment such as heat exchangers, evaporators, containers, etc., where the material is required to be chemically resistant.
Sports equipment: Due to the high strength and lightweight properties of aluminum welding wire, it is also used in the manufacture of sports equipment, such as bicycles, skis, etc.
Repair and Maintenance: In the maintenance and upkeep of infrastructure and residential and commercial buildings, aluminum welding wire is used to repair and strengthen structures.
Nuclear industry: Under certain conditions, aluminum welding wire is also used for welding of equipment related to the nuclear industry.

## Q&A:

Q: What are the main components of aluminum welding wire?
A: The main component of aluminum welding wire is aluminum, and may also contain other elements, such as silicon, iron, copper, manganese, magnesium, zinc, titanium, etc. The addition of these elements can improve the welding performance and mechanical properties of the welding wire.

Q: What kind of protective gas is needed for aluminum welding wire?
A: The most commonly used protective gas when welding aluminum wire is argon, because argon can provide an oxygen-free welding environment and prevent oxidation of the weld.

Q: Why is it recommended to use the push gun method when welding aluminum wire?
A: It is recommended to use the push-gun method when welding aluminum. This is because the aluminum welding wire is soft, and the push-gun method can help reduce problems that may occur during wire feeding, such as wire breakage or deformation.

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