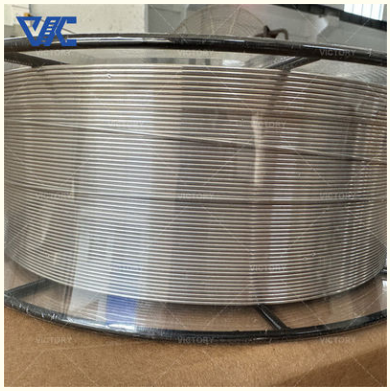
Stainless Steel Metal Welding Wire 308 308L 309 309L 316L Stainless Steel Tig Rod Welding Wire

Our Product Introduction

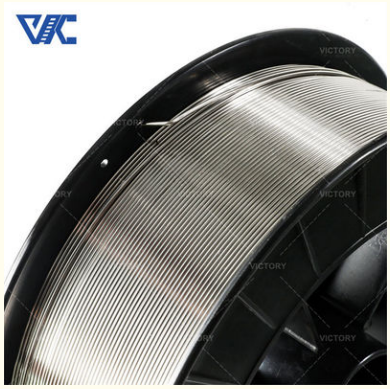
Basic Information

- Place of Origin: Jiangsu, China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: 301, 304, 304L, 309S, 310S, 316, 316L, 321, 430, 904L, 2205, 201, 202
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: stainless steel wire is packed with waterproof paper or weave bag, into carton boxes, pallets or wooden case.
  Special packaging requirements can also be accommodated.
  OEM is also acceptable.
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 150 Ton/Tons per Month

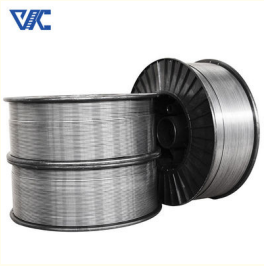


Product Specification

- Product Name: Stainless Steel Metal Welding Wire
- Steel Grade: 301, 304, 304L, 309S, 310S, 316, 316L, 321, 430, 904L, 2205, 201, 202
- Material: Stainless Steel
- Diameter: 1.6mm 2.0mm 3.17mm 4.0mm
- Elongation: 34%
- Standard: AWS A5.9/ A5.9M
- Usages: For Welding Stainless Steel Structure
- Shielding Gas: Totally CO2
- Highlight: **410 Stainless Steel Welding Wire**, **430 Stainless Steel Welding Wire**, **0.13mm Stainless Steel Wire**



More Images



Our Product Introduction

for more products please visit us on victory-alloy.com

Product Description

Introduction:

308, 308L, 309, 309L, and 316L stainless steel welding wires are the main welding materials used for welding stainless steel. These wires differ in chemical composition and performance and are suitable for different welding applications.

308 and 308L: These two welding wires are used for welding austenitic stainless steel, mainly used for welding 304 and 304L stainless steel. 308L is a low-carbon version, which has better resistance to intergranular corrosion than 308, so 308L is more popular when welding materials that require high corrosion resistance.

309 and 309L: These wires are suitable for welding dissimilar materials of stainless steel and carbon steel, or for welding stainless steel parts in high temperature environments. 309L is a low carbon version with better resistance to intergranular corrosion.

316L: 316L welding wire is suitable for welding 316 and 316L stainless steel. It contains molybdenum and has higher corrosion resistance, especially in environments containing chloride. Therefore, 316L welding wire is often used to weld equipment in marine and chemical environments.

These stainless steel welding wires have their own characteristics in terms of chemical composition, carbon content, corrosion resistance, etc., and are suitable for welding stainless steel structures, equipment, and pipelines. Selecting the appropriate welding wire grade depends on factors such as the welding material, working environment and corrosion resistance requirements.

Parameter:

AISI Chemical composition table								
C	Si	Mn	P	S	Ni	Cr	Mo	Cu
304	<0.08	<1.0	<2.0	<0.035	<0.03	8-10	17-19	-
304L	<0.03	<1.0	<2.0	<0.04	<0.03	9-13	18-20	-
304HC	<0.06	<1.0	1.2-1.8	<0.035	<0.03	8-11	17-19	-
316	<0.08	<1.0	<2.0	<0.04	<0.03	10-14	16-18	2-3
316L	<0.03	<1.0	<2.0	<0.04	<0.03	12-15	16-18	2-3
310S	<0.08	<1.5	<2.0	<0.04	<0.03	19-22	24-26	-
321	<0.08	<1.0	<2.0	<0.045	<0.03	9-13	17-19	-
301	<015	<1.0	<2.0	<0.04	<0.03	>7	16-18	-
302	<0.15	<1.0	<2.0	<0.04	<0.03	>8	17-	

Stainless steel wire size tolerance		
Wire diameter (mm)	Tolerance (mm)	Maximum deviation (mm)
0.-0.299	±0.005	0.005
0.300-0.310	±0.006	0.006
0.320-0.499	±0.006	0.006
0.500-0.599	±0.006	0.006
0.600-0.799	±0.008	0.008
0.800-0.999	±0.008	0.008
1.00-1.20	±0.009	0.009
1.20-1.40	±0.009	0.009
1.40-1.60	±0.010	0.01
1.60-1.80	±0.010	0.01
1.80-2.00	±0.010	0.01
2.00-2.50	±0.012	0.012
2.50-3.00	±0.015	0.015
3.00-4.00	±0.020	0.02
4.00-5.00	±0.020	0.02

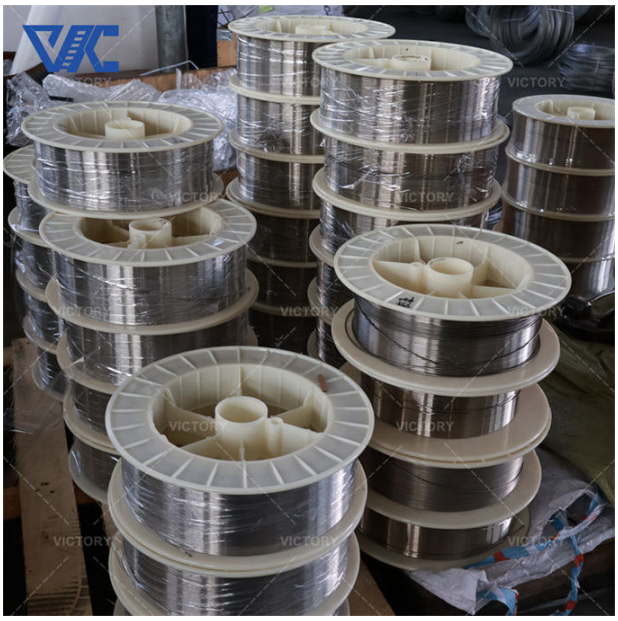
1. Factory supply OEM service.
2. Model : ER308 ER308L ER308LSi ER309 ER309L ER316 ER316L ER316LSi etc.
3. Size for MIG 5kg/spool, 15kg/spool : 0.8mm 0.9mm 1.0mm 1.2mm 1.6mm.
4. Size for TIG stainless steel wire 5kg/tube : 1.6mm 2.0mm 2.4mm 3.2mm 4.0mm .

Feature:

Differences in chemical composition: Each grade of stainless steel welding wire has slightly different chemical compositions to meet different welding needs, such as intergranular corrosion resistance, corrosion resistance, etc.
Stable welding performance: These welding wires have good welding performance, including stable arc and good penetration, making welding operations more convenient.

Application:

308 and 308L: Used for welding austenitic stainless steel, commonly used in food processing equipment, chemical equipment and other fields.
309 and 309L: Suitable for welding stainless steel with dissimilar materials and high temperature environments, commonly used in stoves, petrochemical equipment and other fields.
316L: Used for welding 316 and 316L stainless steel with high corrosion resistance requirements, commonly used in marine engineering, chemical equipment and other fields.



Q&A:

Q: What is the difference between 309L welding wire and 309 welding wire?
A: 309L welding wire is a low-carbon version of 309 welding wire. It has better intergranular corrosion resistance and welding performance stability, and is suitable for welding stainless steel in high temperature environments.

Q: In what environments is 316L welding wire suitable?
A: 316L welding wire is suitable for marine environments containing chloride and corrosive environments in the chemical industry. It is often used for welding marine engineering and chemical equipment.

Q: Why choose 308L instead of ordinary 308 welding wire?
A: 308L welding wire is a low-carbon version with better resistance to intergranular corrosion. In some specific welding applications, especially those that require high corrosion resistance of welding materials, 308L welding wire is more suitable.

Changzhou Victory Technology Co., Ltd

+8619906119641 victory@dlx-alloy.com victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu