Nickel Alloy Incoloy 625 MIG TIG ERNiCrMo-3 ERNiCr-3 ERNiCrMo-4 Hactelloy C276 Welding Wire

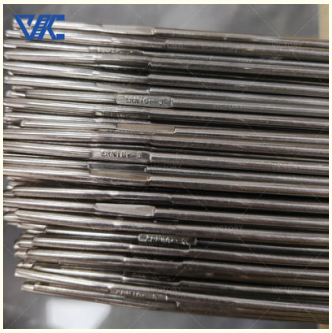
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: ERNiCrMo-3,ERNiCrMo-4,ERNiCrMo-13,ERNiCrFe-7,ERNiCr-3
- Minimum Order Quantity: 15
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Material: Ni, Mo, Cr
- Elongation: ≥22 %
- Density: 8.60 G/cm3
- Tensile Strength Rm N/mm²: ≥600
- Yieldstrength R P0. 2 N/mm²: ≥360
- Melting Point: 1310-1360
- Certificates: AWS A5.14 / ASME SFA A5.14
- Highlight: **ERNiCr-3 C276 Welding Wire**, **ERNiCrMo-4 Hactelloy**, **Nickel Alloy Incoloy 625**



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Our Product Introduction

Product Description

Standard Welding Nickel Alloy Incoloy 925 926 825 800 Wire Per Kg Nickel Wire

ERNiCrMo-4 Nickel-based Welding Wire C-276 Welding Wire

Description: ERNiCrMo-4 is a nickel-chromium-molybdenum series welding wire. The deposited metal exhibits excellent mechanical properties and good resistance to point decoration and crevice corrosion in various corrosive media. It features stable arc, aesthetically pleasing bead formation, good flowability, and excellent welding process performance.

Applications: Suitable for welding nickel-chromium-molybdenum alloys such as Inconel C276. It can also be used for surface cladding of steel and welding dissimilar metals, as well as for welding 9% nickel steel.

ERNiCrMo-3 Nickel-based Welding Wire Ni625 Welding Wire Inconel625 Welding Wire

Description: ERNiCrMo-3 is a nickel-chromium-molybdenum series welding wire. The deposited metal exhibits good mechanical properties, resistance to pitting and crevice corrosion, stable arc, aesthetically pleasing bead formation, good flowability, and excellent welding process performance.

Applications: Suitable for welding nickel-chromium-molybdenum alloys such as Inconel 625 and Inconel 825. It can also be used for welding nickel-based alloys with stainless steel dissimilar materials and for surface cladding.

ERNiCr-3 Nickel-based Welding Wire Ni82 Welding Wire Inconel600 Welding Wire

Description: ERNiCr-3 is a nickel-chromium-iron series nickel-based welding wire. The deposited metal exhibits good mechanical properties, corrosion resistance, oxidation resistance, and high creep strength. It features stable arc, aesthetically pleasing bead formation, good fluidity, and excellent welding process performance.
Applications: Suitable for welding nickel-chromium-iron alloys, including welding for anti-creep joints such as Inconel 600, Inconel 601, Inconel 800 alloys, and their welding with carbon steel, stainless steel dissimilar materials. Also used for surface cladding.

S901 Nickel Titanium Welding Wire ERNi-1 Nickel-based Welding Wire
Description: S901 is a pure nickel welding wire containing a suitable amount of titanium. The addition of titanium helps control porosity and refine grain structure in the weld metal, resulting in well-performing weld joints.
Applications: Used for argon arc welding of pure nickel to pure nickel, transition layer, joint face, and flange surfacing. Mainly applied in chemical plants for the production of industrial tanks, containers, process pipelines, heat exchangers handling corrosive soda ash, as well as for welding alkali metal and halide equipment. Additionally used for welding cast iron to obtain low-strength deposited metal with good ductility.

ERNiCu-7 Nickel Copper Titanium Welding Wire
Description: S911 is based on a nickel-copper (Monel) alloy with manganese and titanium content optimized to effectively suppress hot cracking and porosity formation. This optimization results in the highest toughness and strength in the deposited metal among similar weld metal types.
Applications: Used for argon arc welding of nickel-copper alloys and for welding one side of nickel-copper composite steel, as well as for surface cladding of steel. Due to its high strength and thermal conductivity and corrosion resistance to seawater, inorganic salts, sulfuric acid, hydrofluoric acid, hydrogen fluoride, and alkalis, it is commonly used in marine engineering, offshore, chemical, petrochemical, power industries for welding heat exchangers, pipelines, containers, evaporators.

ENiCrMo-3 Nickel-based Welding Rod Ni625 Welding Rod Inconel625 Welding Rod
Description: ENiCrMo-3 is a low hydrogen type covered nickel alloy welding rod. The deposited metal exhibits high strength and strong corrosion resistance at room temperature and high temperatures. It can be welded in all positions using reverse polarity.
Applications: Used for welding nickel-chromium-molybdenum alloys such as Inconel 625, Inconel 800, Inconel 800H, Inconel 825 nickel-based alloy welding. Also suitable for welding iron-nickel-based high-temperature corrosion-resistant alloys and for welding nickel-based alloys with stainless steel dissimilar materials and surface cladding.

ENiCrMo-4 Nickel-based Welding Rod C-276 Welding Rod
Description: ENiCrMo-4 is a low hydrogen type covered nickel alloy welding rod. It can be welded using reverse polarity with excellent welding process characteristics. The deposited metal has excellent mechanical properties and outstanding resistance to pitting corrosion, stress corrosion cracking, and high-temperature oxidation. It can be welded in all positions.
Applications: Mainly used for Inconel C276 welding and other nickel-based alloy welding. Also suitable for surface cladding of carbon steel.

ENiCrFe-3 Nickel-based Welding Rod Ni182 Welding Rod Inconel600 Welding Rod
Description: ENiCrFe-3 is a low hydrogen type covered Ni70Cr15 type heat-resistant alloy electric welding rod. The presence of a certain amount of manganese niobium alloy elements in the weld metal provides good crack resistance. It can be welded in all positions using reverse polarity.
Applications: Used for welding nickel-chromium-iron alloys such as Inconel 600, Inconel 800, Inconel 800H nickel-based alloy. Also suitable for welding dissimilar metals such as stainless steel and high-nickel steel or low-alloy steel.

Ni102 Welding Rod ENi-1 Nickel-based Welding Rod
Description: Nickel 102 is a titanium-calcium type covered pure nickel welding rod. The weld metal exhibits good mechanical properties and heat resistance as well as corrosion resistance. When using DC power supply, the electrode is connected to the positive pole.
Applications: Used for welding pure nickel and nickel-plated steel sheets. Also used for welding dissimilar materials between nickel and steel and surface cladding of steel. Applied in chemical equipment, food processing, and medical equipment manufacturing.

Ni207 Welding Rod ENiCu-7 Nickel-based Welding Rod
Description: Nickel 207 is a low hydrogen type covered nickel-copper welding rod. The special design of the flux system and deoxidation system ensures excellent weld quality and lower residual element content compared to common nickel-copper alloys. By appropriately increasing the Mn and Ti content in the weld metal structure, it effectively suppresses the formation of hot cracks and porosity. Welding with DC power supply with electrode connected to the positive pole.
Applications: Used for welding nickel-copper itself and also for welding nickel-copper alloy with steel and surface cladding of steel.

Chemical Properties

C	Si	Mn	Cr	P	Ni
≤0.01	≤0.2	≤0.5	22.0-24.0	≤0.015	Rem
Al	Mo	Fe	Cu	S	Co
0.10-0.40	15.0-16.50	≤0.5	≤0.1	<0.01	<0.20

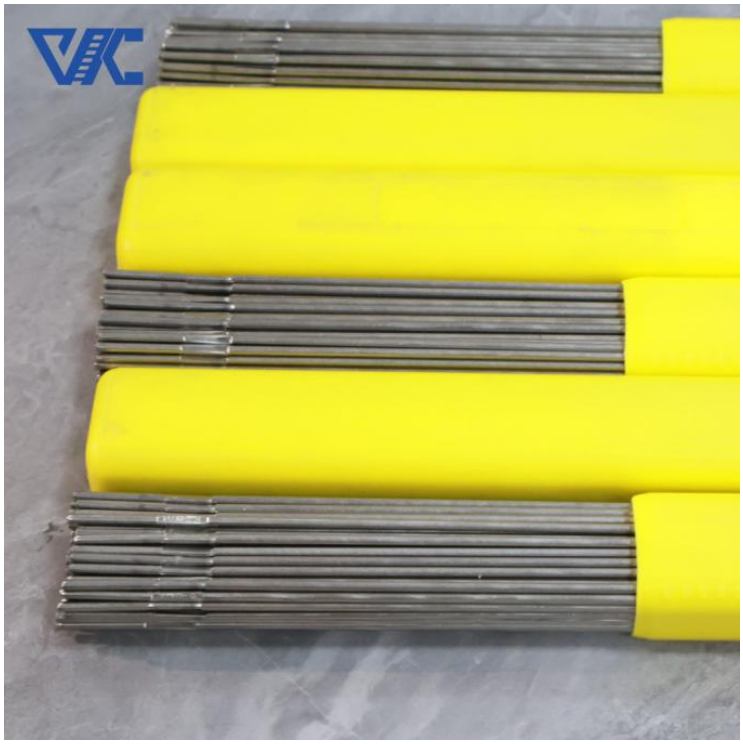
Typical Welding Parameters

Diameter		Process	Volt	Amps (flat)	Amps (V/OH)
inch	(mm)				
0.035	0.9	GMAW	26-29	150-190	Spray Transfer 100% Argo
0.045	1.2	GMAW	28-32	180-220	Spray Transfer 100% Argo
1/16	1.6	GMAW	29-33	200-250	Spray Transfer 100% Argo
1/16	1.6	GTAW	14-18	90-130	100% Argon
3/32	2.4	GTAW	15-20	120-175	100% Argon
1/8	3.17	GTAW	15-20	150-220	100% Argon

Tensile Strength	109 Ksi	790 MPA
Yield Strength	68 Ksi	470 MPA

Elongation	40-45%	
Density g/cm3	8.60 g/cm3	
Melting Point	1300-1360	
Coefficient of Expansion. 21-93 Co, μm/m * Co	11.90	

Item	ERNiCrMo-3	ERNiCrMo-4	ERNiCrMo-13	ERNiCrFe-7	ERNiCr-3	ERNiCu-7	ERCuNi
C	0.1	0.02	0.01	0.04	0.1	0.15	0.03
Mn	0.05	1	0.5	1	2.5-3.5	4	0.5-1.0
Fe	5	4-7	1.5	7-11	3	2.5	0.65
P	0.02	0.04	0.015	0.02	0.03	0.02	0.01
S	0.015	0.03	0.005	0.015	0.015	0.015	0.01
Si	0.05	0.08	0.1	0.5	0.5	1.25	0.15
Cu	0.5	0.5	N/A	0.3	0.5	rest	rest
Ni	≥58	rest	rest	rest	≥67	62-69	30-32
Co	N/A	2.5	0.3	N/A	N/A	N/A	N/A
Al	0.4	N/A	0.1-0.4	1.1	N/A	1.25	0.15
Ti	0.4	N/A	N/A	1	0.75	1.5-3	0.5
Cr	20-23	14.5-16.5	22-24	28.5-31	18.0-22.0	N/A	N/A
Nb+Ta	3.5-4.15	N/A	1.8-2.5	0.01	2.0-3.0	N/A	N/A
Mo	8.0-10	15-17	15-16	0.5	N/A	N/A	N/A
V	N/A	0.35	N/A	N/A	N/A	N/A	N/A
W	N/A	3.-4.5	N/A	N/A	N/A	N/A	N/A
Rest	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50



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