AWS A5.14 ERNiCrMo-3 ERNiCrMo-4 ERNiCrMo-13 ERNiCr-3 ERNiCu-7 ERNi-1 Inconel Alloy Steel MIG TIG Welding Wire Rod

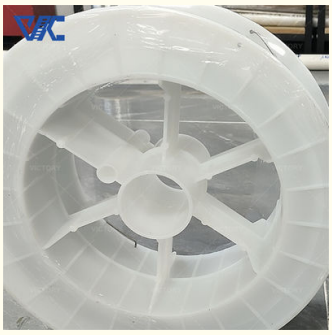
Our Product Introduction

Basic Information

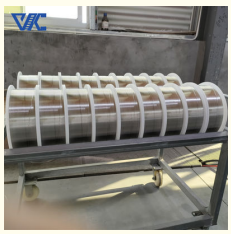
- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: ERNiCrMo-3,ERNiCrMo-4,ERNiCrMo-13,ERNiCrFe-7,ERNiCr-3
- Minimum Order Quantity: 5 Kg
- Price: 15 - 499 kilograms US$35.00
- Packaging Details: Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case
- Delivery Time: 7 to 20 Days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

Product Specification

- Material: Nickel Based Welding Wire
- Diameter: 1.0-2.4mm
- Customized Support: OEM, ODM, OBM
- Model Number: ERNiCrMo-3,ERNiCrMo-4,ERNiCrMo-13,ERNiCrFe-7,ERNiCr-3
- Application: Electric Power, Pressure Vessel
- Use Type: Mig Torch/tig Torch
- Yield Strength: ≥420Mpa
- Elongation: ≥27%
- Tensile Strength: ≥760Mpa
- Melting Point: 1290-1350℃
- Density: 8.4g/cm3
- Standard: AWS A5.14 ASME DIN



More Images



Our Produc

Product Description

Product Description:

Nickel Welding Wire

Nickel welding wire is a welding material used for welding nickel alloy materials. It has excellent corrosion resistance, high temperature strength and good weldability. Nickel welding wire is commonly used to weld high-alloy steel, nickel

alloys and other metal structures in high-temperature, corrosive environments. It provides a reliable welded connection and maintains the high temperature performance and corrosion resistance of the weld and base metal. The selection of nickel welding wire should be based on the specific application requirements and the characteristics of the welding material to ensure excellent welding quality and mechanical properties.

Parameter:

Chemical composition: The chemical composition of nickel-based welding wire usually includes nickel (Ni) as the main component, and may also contain alloy elements such as chromium (Cr), iron (Fe), molybdenum (Mo), and titanium (Ti).
Diameter specifications: Common nickel-based welding wire diameter specifications include 0.8mm, 1.0mm, 1.2mm, etc. The specific specifications vary according to different products and applications.

Technical Parameters:

MIG	(15kg/spool),	Size
		0.8 1.2 2.4 3.2mm
TIG	(5kg/box),Strip	

Item	ERNiCrMo-3	ERNiCrMo-4	ERNiCrMo-13	ERNiCrFe-7	ERNiCr-3	ERNiCu-7	ERCuNi	ERNi-1
C	0.1	0.02	0.01	0.04	0.1	0.15	0.03	0.15
Mn	0.05	1	0.5	1	2.5-3.5	4	0.5-1.0	1
Fe	5	4-7	1.5	7-11	3	2.5	0.65	1
P	0.02	0.04	0.015	0.02	0.03	0.02	0.01	0.03
S	0.015	0.03	0.005	0.015	0.015	0.015	0.01	0.015
Si	0.05	0.08	0.1	0.5	0.5	1.25	0.15	0.75
Cu	0.5	0.5	N/A	0.3	0.5	rest	rest	0.25
Ni	≥58	rest	rest	rest	≥67	62-69	30-32	≥93
Co	N/A	2.5	0.3	N/A	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	1.5
Ti	0.4	N/A	N/A	1	0.75	1.5-3	0.5	2-3.5
Cr	20-23	14.5-16.5	22-24	28.5-31	18.0-22.0	N/A	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	N/A
Mo	8.0-10	15-17	15-16	0.5	N/A	N/A	N/A	N/A
V	N/A	0.35	N/A	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	N/A
Rest	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50

Type	Standard	Standard	Manin chemcial composition %	Typical application
Nickel welding wire	A5.14 ERNi-1	SG-NiTi4	Ni ≥ 93 Ti3 Al1 Cr-- Mo--	ERNi-1 is used for GMAW, GTAW and ASAW welding of Nickel 200 and 201, joining these alloys to stainless and carbon steels, and other nickel and copper-nickel base metals. Also used for overlaying steel.
NiCuwelding wire	A5.14 ERNiCu-7	SG-NiCu30MnTi	Ni 65 Cr-- Mo-- Ti2 Other: Cu	ERNiCu-7 is a copper-nickel alloy base wire for GMAW and GTAW welding of Monel alloys 400 and 404. Also used for overlaying steel after first applying Layer of 610 nickel.
CuNi welding wire	A5.7 ERCuNi	SG-CuNi30Fe	Ni 30 Cr-- Mo-- Other: Cu	ERCuNi is used for gas metal and gas tungsten arc welding. Can also be used by oxy-fuel welding of 70/30, 80/20, and 90/10 copper nickel alloys. A barrier layer of nickel alloy 610 is recommended prior to overlaying steel with GMAW weld process.
NiCr welding wire	A5.14 ERNiCrFe-3	SG-NiCr20Nb	Ni≥ 67 Cr 20 Mo--- Mn3 Nb2.5 Fe2	Type ENiCrFe-3 electrodes are used for welding of nickel-chromium-iron alloys to themselves and for dissimilar welding between nickel-chromium-iron alloys and steels or stainless steels.
	A5.14 ERNiCrFe-7		Ni: Rest Cr 30 Fe 9	Type ERNiCrFe-7 is used for gas-tungsten-arc and gas-metal-arc welding of INCONEL 690.

NiCrMo welding wire	A5.14 ERNiCrMo-3	SG-NiCr21Mo9Nb	Ni≥ 58 Cr 21 Mo 9 Nb3.5 Fe ≤1.0	ERNiCrMo-3 is used primarily for gas tungsten and gas metal arc and matching composition base metals. It is also used for welding Inconel 601 and Incoloy 800. It can be used to weld dissimilar metal combinations such as steel, stainless steel, Inconel and Incoloy alloys.
	A5.14 ERNiCrMo-4	SG-NiMo16Cr16W	Ni Rest Cr 16 Mo 16 W3.7	ERNiCrMo-4 is used for welding nickel-chromium-molybdenum base materials to itself, steel and other nickel base alloys and for cladding steel.
	A5.14 ERNiCrMo-10		Ni Rest Cr 21 Mo 14 W3.2 Fe 2.5	ERNiCrMo-10 is used for welding nickel-chromium-molybdenum base materials to themselves, steel and other nickel base alloys, and for cladding steels. Can be used to weld duplex, super duplex stainless steels.
	A5.14 ERNiCrMo-14	SG-NiCr21Mo16W	Ni Rest Cr 21 Mo 16 W3.7	ERNiCrMo-14 is used for gas-tungsten-arc and gas-metal-arc welding of duplex, super-duplex and super-austenitic stainless steels, as well as nickel alloys such as UNS N06059 and N06022, INCONEL® alloy C-276, and INCONEL® alloys 22, 625, and 686.

For more details, pls directly contact us.

Characteristic:

Corrosion resistance: Nickel-based welding wire has good corrosion resistance and can maintain good stability in corrosive media such as acid, alkaline and chloride.
High-temperature strength: Nickel-based welding wire has excellent high-temperature strength and thermal fatigue resistance, and is suitable for welding applications in high-temperature environments.
Good cold welding performance: Nickel-based welding wire has good compatibility and cold welding performance with a variety of metal substrates, enabling reliable welding connections.
Oxidation resistance: Nickel-based welding wire has good antioxidant properties and can prevent oxidation and corrosion in high temperature environments.

Application:

Petrochemical industry: Nickel-based welding wire is often used for welding petrochemical equipment, such as refinery units, chemical reactors, storage tanks, etc., to meet corrosion resistance and high temperature requirements.
Nuclear energy industry: Nickel-based welding wire is widely used in the construction and maintenance of nuclear power plants and is used to weld nuclear reactor pressure vessels, nuclear fuel elements, etc.
Aerospace field: Nickel-based welding wire is used in the manufacturing and maintenance of aerospace equipment, such as aerospace engines, turbine blades, etc., to meet high temperature and corrosion resistance requirements.
Chemical industry: Nickel-based welding wire can be used to weld chemical reaction equipment, evaporators, steam generators, etc. to cope with the effects of highly corrosive media.
Marine engineering: The corrosion resistance of nickel-based welding wire in marine environments makes it an important welding material for structures such as submarine pipelines and offshore platforms.

Customization:

Victory Nickel Welding Wire - ERNiCrMo-3
Standard: AWS A5.14, ERNiCrMo-4/ ASME II, SFA-5.14, UNS N10276 Werkstoff Nr. 2.4886 ISO SNi6276 Europe NiCrMo16Fe6W4
Size: 0.8MM / 1.0MM / 1.2MM / 1.6MM / 2.4MM / 3.2MM / 3.8MM / 4.0MM / 5.0MM
Form: MIG(15kg/spool), TIG(5kg/box),Strip

contact us
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Oem service:
Welcome customized size
We are experience factory for OEM&ODM service

FAQ:

What welding materials are nickel-based welding wires suitable for?
Nickel-based welding wire is suitable for welding a variety of materials, including stainless steel, nickel alloys, copper alloys, and steel. It has good compatibility and cold welding properties with these materials, enabling reliable welding connections.

How does nickel-based welding wire perform in high temperature environments?
Nickel-based welding wire exhibits excellent performance in high-temperature environments. It has high temperature strength and thermal fatigue resistance, can withstand stress and deformation at high temperatures, and maintain the stability of the welded connection. This makes nickel-based welding wire widely used in high-temperature industrial fields and aerospace fields.

What are the corrosion properties of nickel-based welding wire?
Nickel-based welding wire has good corrosion resistance. It can maintain good stability in corrosive media such as acid, alkaline and chloride, and reduce corrosion and oxidation of welded joints. This makes nickel-based welding wire one of the welding materials with higher corrosion resistance requirements in the fields of petrochemical industry, chemical industry and marine engineering.

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