

AWS A5.14 ERNiCrMo-13 Welding Rod Argon Arc Wedling Wire

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China
Victory
CE,ROHS,ISO 9001
ERNiCrMo-13
5 Kg
15 - 499 kilograms US\$35.00
Plastic film or waterproof woven bag inside, wire packed in spool put into carton,coil wire or strip wire put into wooden case
7 to 20 Days
L/C, T/T, Western Union, MoneyGram
300 tons per month



0 11 100

6 2.4.

Product Specification

Material:	Nickel Based Welding Wire
Diameter:	1.0-2.4mm
Customized Support:	OEM, ODM, OBM
Model Number:	ERNiCrMo-13
Application:	Aerospace, Nuclear Energy Industry And High Temperature Equipment
• Use Type:	Mig Torch/tig Torch
Yield Strength:	≥420Mpa
Elongation:	≥27%
Tensile Strength:	≥760Mpa
Melting Point:	1290-1350°C
Density:	8.4g/cm3
Standard:	AWS A5.14 ASME DIN



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Product Description

Product Description:

Nickel Welding Wire

ERNiCrMo-13 welding wire is a high alloy nickel-based welding wire, mainly composed of nickel, chromium, molybdenum and iron. It is widely used for welding metal structures in high temperature and corrosive environments, and is especially suitable for welding nickel-based alloys and other corrosion-resistant alloys.

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ERNiCrMo-13 welding wire has excellent corrosion resistance and can resist various corrosive media, such as acids, alkalis, salts, etc. It also has excellent high-temperature strength and oxidation resistance, and can maintain stable welding performance and mechanical properties in high-temperature environments.

The welding wire has good weldability and fluidity, making the welding operation more convenient and stable. It provides high-quality welds and maintains excellent performance of welded joints. ERNiCrMo-13 welding wire is suitable for a variety of welding methods, such as argon arc welding, TIG welding and MIG welding.

ERNiCrMo-13 welding wire has a wide range of applications, including chemical equipment, oil and gas industry, aerospace field, nuclear energy industry, and marine engineering.

Applications in high temperature environments:

ERNiCrMo-13 welding wire is suitable for a wide range of high temperature environments, including but not limited to the following specific application areas: Petrochemical industry: ERNiCrMo-13 welding wire is often used for welding high-temperature corrosive media such as

Petrochemical industry: ERNiCrMo-13 welding wire is often used for welding high-temperature corrosive media such as refinery units, chemical reactors, storage tanks and pipelines. For example, in highly corrosive media such as sulfuric acid, hydrochloric acid, and chloride, ERNiCrMo-13 welding wire can provide excellent corrosion resistance. Nuclear energy industry: ERNiCrMo-13 welding wire is widely used in welding processes in the construction and

Nuclear energy industry: EHNICrMo-13 welding wire is widely used in welding processes in the construction and maintenance of nuclear power plants. It is commonly used to weld various high-temperature components of nuclear reactor pressure vessels, nuclear fuel elements and nuclear equipment to meet the nuclear energy industry's requirements for high-temperature strength and corrosion resistance.

requirements for high-temperature strength and corosion resistance. Aerospace field: ERNiCrMo-13 welding wire plays an important role in the manufacturing and repair of aerospace equipment. It is commonly used to weld high-temperature components in aerospace engines, turbine blades and spacecraft to cope with extreme temperatures and corrosive environments. Chemical industry: ERNiCrMo-13 welding wire is widely used in high-temperature processes such as chemical reaction

Chemical industry: EHNICRMo-13 welding wire is widely used in high-temperature processes such as chemical reaction equipment, evaporators, steam generators and acid-base vessels. It can withstand various corrosive media and high temperature conditions, maintaining the stability and integrity of welded joints. In short, ERNiCrMo-13 welding wire is suitable for a variety of high-temperature environments, and is especially suitable

In short, EHNICMO-13 welding wire is suitable for a variety of high-temperature environments, and is especially suitable for use in industrial fields that require corrosion resistance and high-temperature strength. The specific application depends on the welding materials and working environment requirements.

Technical Parameters:

MIG	i	(15kg/s	pool),			Size							
TIO						0.8 1.2	2.4 3.	2mm						
TIG (5kg/box),Strip														
RNiCrN	/lo-13													
											Nb	Nb	Nb	Nb

С Mn Fe Si Cu Ni Co AI Ti Cr Мо V W Rest Та 22. 1 8-0.00 01 15-< 0.5 0.015 0.1 N/A 0.3 N/A N/A 0.01 0.5 1.5 Rest N/A 5 0.4 24 2.5 16 0

High temperature resistance:

The high temperature resistance of welding wire refers to the ability of the welding wire to maintain its structural stability and performance in high temperature environments. For certain applications, such as high-temperature equipment manufacturing, aerospace and stove manufacturing, welding materials need to have excellent high-temperature resistance.

When selecting welding wire, the following factors are critical to the high temperature resistance of the welding wire: Melting point: The melting point of the welding wire should be higher than the expected operating temperature to ensure that the welded joint will not melt or lose strength in high temperature environments.

Material composition: The material composition of the welding wire determines its high temperature resistance. Hightemperature alloy welding wire usually contains high-temperature stable alloy elements such as nickel, chromium, molybdenum, tungsten, iron, etc. These elements can maintain structural stability and mechanical properties at high temperatures.

Thermal expansion coefficient: The thermal expansion coefficient of the welding wire should match the base metal to avoid cracking and deformation caused by thermal stress at high temperatures.

Anti-oxidation properties: The welding wire should have good anti-oxidation properties to prevent oxidation and corrosion at high temperatures.

Thermal conductivity: The thermal conductivity of the welding wire affects the heat transfer and temperature distribution during the welding process, and has an important impact on the quality and high-temperature performance of the weld. It should be noted that other factors in the welding process, such as welding process parameters, welding joint design and subsequent heat treatment, will also affect the high temperature resistance of welded joints. Therefore, in practical applications, these factors should be considered comprehensively, and appropriate welding wires and welding

and subsequent heat treatment, will also affect the high temperature resistance of welded joints. Therefore, in practical applications, these factors should be considered comprehensively, and appropriate welding wires and welding processes should be selected according to specific requirements to ensure that the welded joints have stable performance in high-temperature environments.

Welding process precautions:

When choosing an appropriate welding process to ensure stable performance of the welded joint in a high-temperature environment, the following aspects need to be considered: Welding material selection: Choose heat-resistant welding materials suitable for high-temperature environments, such

Welding material selection: Choose heat-resistant welding materials suitable for high-temperature environments, such as high-temperature alloy welding wire. Ensure that the welding wire has good high temperature resistance and oxidation resistance.

Welding process parameters: According to the welding materials and work requirements, optimize the welding process parameters, including welding current, voltage, welding speed, welding preheating temperature, etc. Ensure proper heat input and temperature control during welding.

Appropriate welding method: Choose the appropriate welding method according to the specific situation, such as TIG (argon arc welding), MIG (inert gas welding), arc welding, etc. Different welding methods have different effects on the performance of welded joints in high temperature environments. Welding joint design: Reasonably design the size, shape and structure of the welding joint to meet the stress and thermal expansion requirements in high temperature environments. Considering the influence of thermal stress,

Welding joint design: Reasonably design the size, shape and structure of the welding joint to meet the stress and thermal expansion requirements in high temperature environments. Considering the influence of thermal stress, methods such as slow cooling or subsequent heat treatment can be used to improve the stability of welded joints. Follow-up processing and testing: As needed, follow-up heat treatment, heat treatment aging or heat treatment annealing and other processes are performed to improve the stability and performance of the welded joint. At the same time, necessary non-destructive testing and welding seam inspection are carried out to ensure that the welding quality meets the requirements.

It should be noted that for specific high-temperature environment requirements and application scenarios, special welding process development and testing may be required to verify the performance of welded joints under high-temperature conditions. In addition, proper welding operations and welding process monitoring are also important factors to ensure the stability of welded joints in high-temperature environments.

Customization:

Victory Nickel Welding Wire - ERNiCrMo-3

Looking for high quality and reliable nickel weld wire? Look no further than Victory's ERNiCrMo-3 welding wire. Made with high quality nickel material, this wire is perfect for all your welding needs. Customization Service At Victory, we understand that each project is unique and requires specific welding solutions. That's why we offer customization services for our nickel welding wire. We can tailor the wire according to your specific needs and requirements, ensuring the best possible results for your project.

contact us email:victory@dlx-alloy.com Oem service:

Welcome customized size We are experience factory for OEM&ODM service

FAQ:

Q: In what applications is ERNiCrMo-13 welding wire commonly used? Answer: ERNiCrMo-13 welding wire is widely used in welding applications in petrochemical industry, chemical industry, marine engineering, nuclear power plants and other fields.

Q: What are the quality standards for ERNiCrMo-13 welding wire? Answer: The quality standard of ERNiCrMo-13 welding wire usually complies with AWS A5.14 or other relevant international standards.

Q: What are the welding process parameters of ERNiCrMo-13 welding wire? Answer: The welding process parameters of ERNiCrMo-13 welding wire include welding current, voltage, welding speed, etc. The specific parameters should be determined according to the actual application situation.





