# Nickel Alloy 625 600 601 Inconel Welding Wire Ernicrmo-3/Ernicr-

#### 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:

 Yieldstrength R P0. 2 N/mm²:

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• Melting Point: 1310-1360°C

Certificates:
AWS A5.14 / ASME SFA A5.14

≥360

• Highlight: 601 Inconel Welding Wire,

Ernicrmo-3 Welding Wire, Ernicr-3 Welding Wire



#### More Images





#### **Product Description**

Nickel welding wire is a metal welding material used in welding processes, mainly composed of pure nickel or nickel alloy. It has excellent welding characteristics and performance and is widely used in various industrial fields.

Nickel welding wire provides good melting and flow properties during the welding process, allowing it to effectively connect and fill gaps between metal workpieces. It can adapt to different welding methods, such as argon arc welding, TIG welding, MIG welding, etc.

Nickel welding wire can be used to weld different types of metals, including nickel alloys, stainless steel, high-temperature alloys, copper alloys, and more. It is widely used in aerospace, petrochemical, electric power, chemical, nuclear energy and other industries to manufacture, repair and maintain various equipment and components.

Characteristics of nickel welding wire include good corrosion resistance, high temperature stability and excellent mechanical properties. It can resist oxidation, corrosion and high-temperature

environment erosion, maintaining the stability and reliability of welded joints. In addition, nickel welding wire also has good workability and is convenient for welding operations and processing.

#### **Chemical Properties**

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

Typical Welding Parameters					
Diameter		D	M-II	A ((1 - A))	A (V/QII)
inch	(mm)	Process	Volt	Amps (flat)	Amps (V/OH)
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 °C	1300-1360°C	
Coefficient of Expansion. 21-93 Co, µm/m *	11.90	

Item	ERNiCrM o-3	ERNiCrM o-4	ERNiCrMo -13	ERNiCrFe- 7	ERNiCr- 3	ERNiC u-7	ERCuNi
С	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
Р	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+T a	3.5-4.15	N/A	1.8-2.5	0.01	2.0-3.0	N/A	N/A
Мо	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	34.5	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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