

Basic Information

ERNiCrMo-3 ERNiCr-3 ERNiCrMo-4 Welding Nickel Alloy Incoloy 625 800 718 MIG TIG Wire Per Kg Nickel Wire

3.5

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Place of Origin:	China	VIC
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	
oduct Specification		
Material:	Ni, Mo, Cr	THE
Elongation:	≥22 %	VI
Density:	8.60 G/cm3	
Tensile Strength Rm N/mm ² :	≥600	
Yieldstrength R P0. 2 N/mm ² :	≥360	
Melting Point:	1310-1360°C	
Certificates:	AWS A5.14 / ASME SFA A5.14	
Highlight:	ERNiCrMo-3 Welding Nickel Alloy, ERNiCrMo-4 Welding Nickel Alloy, Nickel Allov Incolov 625	

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Product Description

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

Nickel-based alloy welding wires exhibit excellent resistance to reactive gases, harsh environments, and corrosive reducing acid media. They also possess high strength, good ductility, and the capability for cold and hot deformation, as well as weldability.

Consequently, they find extensive applications in industries such as petrochemicals, metallurgy, nuclear energy, marine development, aerospace, and aviation. These alloys are utilized to address engineering corrosion challenges that general stainless steel and other metals or non-metal materials cannot effectively tackle, making them crucial corrosion-resistant materials.

Nickel-based alloys are characterized by nickel serving as the base metal with the inclusion of alloying elements, offering corrosion resistance in specific environments. When classified based on their chemical composition, these alloys primarily include nickel, nickel-copper alloys, nickel-molybdenum (nickel-molybdenum-ion) alloys, nickel-chromium (nickel-chromium-ion) alloys, nickel-chromium-molybdenum alloys (comprising nickel-chromium-molybdenum and nickel-chromium molybdenum-copper alloys), and nickel-chromium (iron-nickel-based) alloys.

Pure nickel welding wire ERNi-1 is employed for welding nickel alloys 200 and 201, as well as nickel-plated steel sheets; welding dissimilar materials such as steel and nickel; and surface cladding of steel. Nickel-copper welding wire ERNiCu-7 is utilized for welding Monel 400 alloy itself; welding Monel 400 alloy with steel; and surface cladding of steel.

Chemical Properties

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

Typical Welding Parameters								
Diameter		Dreeses		Volt	Ampo (flot)	Amma ()//OH)		
inch	(mm)	Process		voit	Amps (nat)			
0.035	0.9	GMAW		26-29	150-190		Spray Tr	ansfer 100% Argo
0.045	1.2	GMAW		28-32	180-220		Spray Tr	ansfer 100% Argo
1/16	1.6	GMAW		29-33	200-250		Spray Tr	ansfer 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		

Tenslie Strengtn	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, $\mu\text{m/m}$ * Co	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
AI	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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