



## Nickel Alloy Nichrome Nickel Inconel 600 601 625 718 713 Welding Wire

Our Product Introduction

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### 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:  $\geq 22\%$
- Density: 8.60 G/cm<sup>3</sup>
- Tensile Strength R<sub>m</sub> N/mm<sup>2</sup>:  $\geq 600$
- Yield strength R<sub>P0.2</sub> N/mm<sup>2</sup>:  $\geq 360$
- Melting Point: 1310-1360°C
- Certificates: AWS A5.14 / ASME SFA A5.14
- Highlight: Inconel 600 Nickel Alloy Wire, Inconel 713 Welding Wire



### More Images



### Product Description

Welding wire is a key welding material used to fill the weld seam and form the welding connection during the welding process. They are used in a wide range of industries, including manufacturing, construction, and the automotive industry.

Welding wire selection is critical to obtaining high-quality welding results. Different types of welding wires have different chemical compositions and welding properties to suit different welding needs. For example, some welding wires can be used to weld high-alloy steels, stainless steels, and nickel alloys, while other welding wires are suitable for materials such as aluminum alloys and copper alloys.

By selecting the appropriate welding wire, good welding quality and reliability can be achieved. Welding wire has excellent corrosion resistance, high temperature strength and oxidation resistance, ensuring that welded joints remain stable in harsh environments and high temperature conditions.

### Chemical Properties

Our Product Introduction

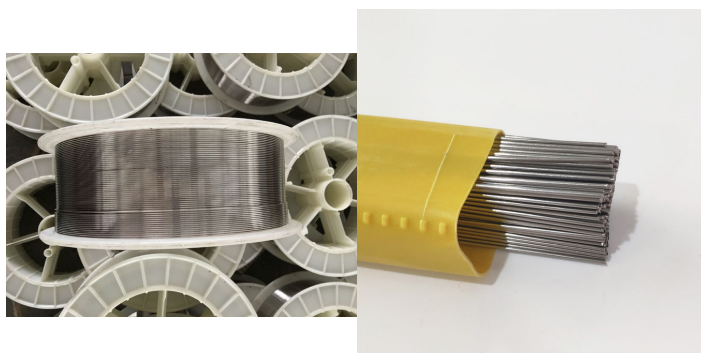
|           |            |      |           |        |       |
|-----------|------------|------|-----------|--------|-------|
| C         | Si         | Mn   | Cr        | P      | Ni    |
| ≤0.01     | ≤0.2       | ≤0.5 | 22.0-24.0 | ≤0.015 | Rem   |
| Al        | Mo         | Fe   | Cu        | S      | 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 °C                              | 1300-1360°C |         |
| Coefficient of Expansion. 21-93 Co, μm/m * Co | 11.90       |         |

| Item  | ERNiCrM<br>o-3 | ERNiCrM<br>o-4 | ERNiCrMo<br>-13 | ERNiCrFe-<br>7 | ERNiCr-<br>3  | ERNiC<br>u-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-<br>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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