



Bright Surface UNS N06617 Nickel Alloy 617 Inconel 617 Seamless / Welded Pipe Tube Supplier

Our Product Introduction

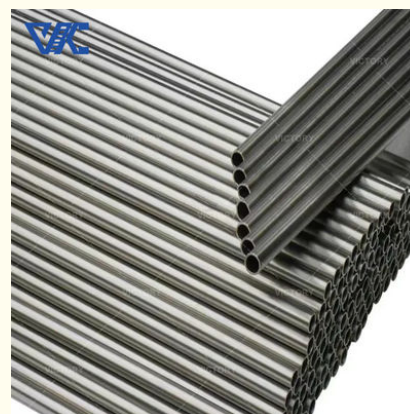
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: ISO
- Model Number: Inconel 617
- Minimum Order Quantity: 50 KGS
- Price: 50 - 500 kgs \$32-\$38
- Packaging Details: Wooden Case
- Delivery Time: 21-45 working days
- Payment Terms: L/C, T/T, Western Union, Paypal
- Supply Ability: 10 Tons Per Month



Product Specification

- Surface: Bright
- Density: 8.36 G/cm3
- Tensile Strength: 665 Mpa
- Yield Strength (0.2% Offset): 240 Mpa
- Elongation: 35%
- Melting Range: 1330 - 1380 °C
- Wall Tolerance: $\pm 3-5\%$
- Pipe Type: Seamless / ERW / Welded / Fabricated / LSAW Pipe
- Pipe End: Plain End, Beveled End, Treaded
- MOQ: 50KGS
- Delivery Lead Time: 21-40 Working Days
- Standard: ASTM B167 / ASTM B626
- Highlight: **UNS N06617 Seamless Pipe Tube, Inconel 617 Seamless Pipe Tube,**



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Product Description

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Inconel 617 is a nickel-based superalloy that is known for its excellent high-temperature strength, corrosion resistance, and oxidation resistance. Some key features of Inconel 617 include:

Composition:

Primarily composed of nickel, chromium, and cobalt, with smaller amounts of molybdenum, iron, and other elements. Typical composition: Ni 44-46%, Cr 20-24%, Co 10-15%, Mo 8-10%, Fe ≤3%, Al ≤1.5%, Ti ≤0.6%.

High-Temperature Properties:

Maintains excellent mechanical properties and corrosion resistance up to temperatures of around 1100°C (2012°F). Exhibits outstanding creep and stress-rupture resistance at elevated temperatures.

Corrosion and Oxidation Resistance:

Highly resistant to corrosion in various environments, including oxidizing, reducing, and high-sulfur atmospheres. Forms a protective oxide layer that provides excellent resistance to high-temperature oxidation.

What is the application of Inconel 617 pipe?

1. Petrochemical Industry:

Inconel 617 pipes are used in refinery and petrochemical plant equipment, such as:

Heaters
Furnaces
Heat exchangers
Reactors

The pipes are able to withstand the harsh, high-temperature, and corrosive environments found in these processes.

2. Power Generation:

Inconel 617 pipes are used in the construction of:

Boilers
Superheaters
Reheaters
Turbine components

The pipes can operate reliably at the high temperatures and pressures encountered in power generation equipment.

3. Aerospace and Gas Turbines:

Inconel 617 pipes are employed in the hot sections of gas turbine engines, such as:

Combustion chambers
Transition ducts
Exhaust systems

The material's high-temperature strength and oxidation resistance make it suitable for these demanding applications.

4. Waste-to-Energy Plants:

Inconel 617 pipes are used in the furnaces and heat recovery systems of waste-to-energy facilities.

The pipes can withstand the corrosive combustion byproducts and high temperatures in these environments.

5. Specialty Applications:

Inconel 617 pipes may also be used in other high-temperature, corrosive applications, such as:

Chemical processing equipment
Flue gas desulfurization systems
Thermal treatment furnaces

The combination of Inconel 617's material properties makes it a valuable choice for piping systems in industries where reliability and performance at elevated temperatures are critical.

Inconel Alloy Series Composition:

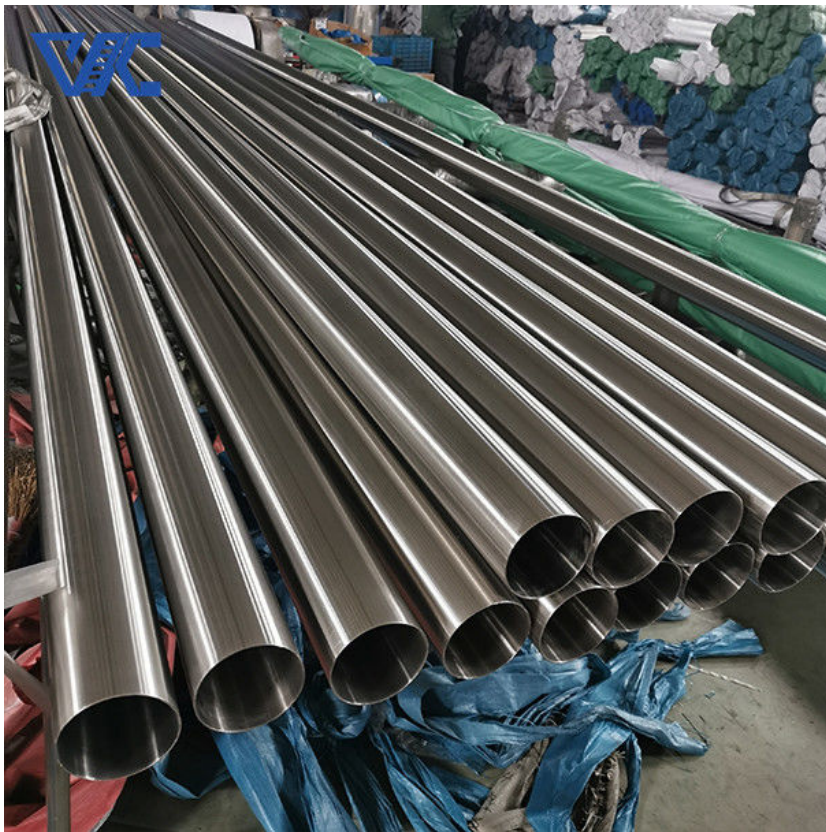
Item	Inconel 600	Inconel 601	Inconel 617	Inconel 625	Inconel 690	Inconel718	Inconel X750	Inconel 825
C	≤0.15	≤0.1	0.05-0.15	≤0.08	≤0.05	≤0.08	≤0.08	≤0.05
Mn	≤1	≤1.5	≤0.5	≤0.35	≤0.5	≤0.35	≤1	≤1
Fe	6-10	rest	≤3	rest	7-11	rest	5-9	≥22
P	≤0.015	≤0.02	≤0.015	--	--	--	--	--
S	≤0.015	≤0.015	≤0.015	≤0.015	≤0.015	≤0.01	≤0.01	≤0.03
Si	≤0.5	≤0.5	≤0.5	≤0.35	≤0.5	≤0.35	≤0.5	≤0.5
Cu	≤0.5	≤1	--	≤0.3	≤0.5	≤0.3	≤0.5	1.5-3
Ni	≥7.2	58-63	≥44.5	50-55	≥58	50-55	≥70	38-46

Co	--	--	10-15	≤10	--	≤1	≤1	--
Al	--	1-1.7	0.8-1.5	≤0.8	--	0.2-0.8	0.4-1	≤0.2
Ti	--	--	≤0.6	≤1.15	--	≤1.15	2.25-2.75	0.6-1.2
Cr	14-17	21-25	20-24	17-21	27-31	17-21	14-17	19.5-23.5
Nb+Ta	--	--	--	4.75-5.5	--	4.75-5.5	0.7-1.2	--
Mo	--	--	8-10	2.8-3.3	--	2.8-3.3	--	2.5-3.5
B	--	--	≤0.006	--	--	--	--	--

Inconel 617 Alloy Parameter:

Inconel 600	Tensile strength (Rm N/mm2)	Yield strength (RP0.2N/mm2)	Elongation A5 (%)	Brinell hardness (HB)	Density(g/cm3)	Melting Point (°C)
Seamless	660	240	35	---	8.36	1330~1380°C
Welded	660	240	35	---		





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