

Seawater Corrosion Resistance Nickel Alloy Inconel 825 Round Pipe For Marine Industry

Basic Information

 Place of Origin: 	China
Brand Name:	Victory
Certification:	CE,ROHS,ISO 9001
Model Number:	Inconel 825
Minimum Order Quantity:	1 Kg
Price:	Negotiable
 Packaging Details: 	Packed as coil. Special packaging requirements can also be accommodated. OEM is also acceptabl
 Delivery Time: 	7 to 20 Days
• Payment Terms:	L/C, D/A, D/P, T/T, Western Union, MoneyGram
 Supply Ability: 	500 Ton/Tons per Month

Inconel 825 Pipe



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Product Specification

- Product Name: • Material:
- Ni (Min):
- Application:
- Modulus Of Rigidity:
- Density (g/m3):
- Modulus Of Elasticity:
- Melting Point:
- Tensile Strength:
- Yield Strength:
- Highlight:
- Ni Fe Cr Mo 38-46% Oil Well Pipelines, Heat Exchangers, Offshore Platforms • Coefficient Of Expansion: 14.0 µm/m °C (20 - 100°C) 75.9 KN/mm² 8.14 G/cm3 196 KN/mm² 1400°C
 - 550 MPa
 - 220 MPa
 - Nickel Alloy Inconel Round Pipe, Nickel Alloy Inconel Rod



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Introduction:

Inconel 825 pipe is a high performance alloy pipe widely used in the marine industry. Composed of elements such as nickel, iron, chromium and molybdenum, Inconel 825 pipe has excellent corrosion resistance and high temperature stability. Its chemical composition includes nickel (38-46%), iron (minimum 22%), chromium (19.5-23.5%) and molybdenum (2.5-3.5%). The pipe has a density of 8.14 g/cm³ and a thermal expansion coefficient of 14.0 µm/m·°C (20-100°C). In addition, it has excellent mechanical properties, such as tensile strength as low as 550 MPa and yield strength as low as 220 MPa.

In the marine industry, Inconel 825 pipe is widely used in key areas such as offshore platform structures, subsea oil and gas pipelines, and seawater treatment equipment. It can resist corrosion in seawater, salt spray and other marine environments, and maintain high strength and plasticity under high temperature conditions. Due to its excellent corrosion resistance and high temperature stability, Inconel 825 pipe is able to meet the strict requirements of the marine industry for corrosion resistance, high strength and high temperature performance, providing reliable solutions for marine projects.

Product Features:

Corrosion resistance: Inconel 825 pipe has excellent corrosion resistance and has good tolerance to sea water, salt spray, marine atmospheric environment and chlorine-containing media.

Antioxidant properties: It has excellent antioxidant properties and can maintain stable performance under high temperatures and oxidizing environments.

High Strength Performance: Inconel 825 pipe has good strength and toughness and can withstand the high pressure and high temperature environments found in the marine industry.

Advantage:

Seawater Corrosion Resistance: Inconel 825 pipe has excellent seawater corrosion resistance and can resist corrosion and oxidation in seawater.

Resistance to marine environment erosion: In the marine atmospheric environment, Inconel 825 pipe shows good resistance to salt spray and erosion, which can extend the service life of equipment and pipelines.

High Temperature Strength: Inconel 825 pipe has excellent high temperature strength and oxidation resistance, making it suitable for high temperature environments in the marine industry.

Specific applications:

Offshore oil extraction: Inconel 825 pipe can be used in oil well pipelines, heat exchangers, storage tanks and anti-corrosion equipment on offshore oil extraction platforms to resist corrosion and high temperature conditions in the marine environment. Offshore natural gas production: Suitable for pipelines, valves and equipment in offshore natural gas production platforms, capable of resisting chloride erosion and high temperature corrosion in the marine environment.

Marine Engineering Structures: Inconel 825 pipe can also be used in marine engineering structures such as offshore platforms, subsea pipelines and marine surveying equipment to provide durability and reliability.

Other relevant knowledge:

Composition of Inconel 825 alloy: Inconel 825 alloy is mainly composed of alloy elements such as nickel, chromium and copper. The reasonable ratio of these elements gives the alloy excellent corrosion resistance and high temperature strength. Heat Treatment and Processing: Inconel 825 pipe typically requires heat treatment to improve its mechanical properties and corrosion resistance. In addition, the alloy can be formed and processed through processes such as cold working and welding to meet the needs of the marine industry.

Safety and environmental protection: The use of Inconel 825 pipe can improve the safety and reliability of marine industrial equipment and reduce the risk of leakage and environmental pollution.

Parameter:

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Chemical Composition (%)										
С	Si	Mn	S	Мо	Ti	Cr	Ni	Al	Fe	Cu
≤0.05	≤0.50	≤1.00	≤0.03	≤2.5~3.5	≤0.6~1.2	19.5~23.5	38.0~46.0	≤0.2	≥22.0	1.5~3.0

Standard									
Sheet/Plate	Round bar/Wire	Pipe	Tube						
ASME SB-424 ASME SB-906	ASME SB-425	ASME SB-423 ASME SB-829 ASME SB-163 ASME SB-751 ASME SB-775	ASME SB-704 ASME SB-705 ASME SB-751 ASME SB-775						

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Q & A:

Q: In which industries are Inconel 825 tube commonly used? A: Inconel 825 tube is commonly used in industries such as chemical processing, oil and gas, and marine applications.

Q: What makes Inconel 825 tube suitable for these applications? A: Inconel 825 tube offer excellent resistance to both reducing and oxidizing acids, as well as corrosion in various aggressive environments.

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