

Excellent High Temperature Strength Inconel X750 Pipe For Aerospace Industry

Basic Information

 Place of Origin: 	China
 Brand Name: 	Victory
Certification:	CE,ROHS,ISO 9001
 Model Number: 	Inconel X750
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:	E00 Tan/Tana nar Manth



11.

114

1=0

BLX

之信码技有

Product Specification

- Product Name:
- Material:
- Ni (Min):
- Density:
- Application:
- Melting Point:
- Tensile Strength:
- Yield Strength:
- Thermal Expansion
 Coefficient:
- Highlight:

Inconel X750 Pipe
Ni Cr Fe
70-75%
8.28g/cm3
Engine Parts, Pipes, Connectors
1393-1427°C
1034 MPa
827 MPa
12.6 μm/m·°C

corrosion resistant inconel alloy, high temperature resistant inconel alloy



More Images





Introduction:

Inconel X750 tube is a tubular material made from elements such as nickel, chromium and iron. It has excellent high temperature performance and mechanical properties and is widely used in engine parts, pipes and connectors.

The pipe has a density of 8.28g/cm3 and a melting point between 1393°C and 1427°C. Inconel X750 pipe has excellent tensile strength of 1034 MPa and a yield strength of 827 MPa, ensuring reliability and durability under high-load operating conditions. In addition, Inconel X750 tubes have a good thermal expansion coefficient of approximately 12.6 µm/m °C. This allows it to remain dimensionally stable in high-temperature environments and to withstand stresses caused by thermal cycling.

Inconel X750 pipe plays an important role in applications such as engine components, pipes and connectors. It can withstand severe working conditions such as high temperature, pressure and corrosion, and provides excellent performance and reliability.

Product Features:

High Temperature Strength: Inconel X750 pipe has excellent high temperature strength and is able to withstand the high temperatures, pressures and extreme environmental requirements found in the aerospace industry.

Corrosion resistance: It has excellent corrosion resistance and can withstand chemical media and corrosive environments in the aerospace industry.

Good processability: Inconel X750 tube is easy to process and form, and can meet the manufacturing needs of complex components.

Advantage:

High Temperature Durability: Inconel X750 tubes maintain stable performance in high temperature environments such as aerospace engines and propulsion systems, providing long-term reliable operation.

Anti-oxidation performance: It has good anti-oxidation performance and can resist corrosion and oxidation in high-temperature atmosphere, extending the service life of the material.

Fatigue Resistance: Inconel X750 pipe has good fatigue resistance and is able to withstand the vibrations and loads found in the aerospace industry.

Specific applications:

Engine Components: Inconel X750 tubing can be used in critical components in aerospace engines, such as combustion chambers, turbine blades, nozzles, and combustor components.

Propulsion system: Suitable for key components such as pipes, connectors and nozzles in aerospace propulsion systems to provide reliable performance in high temperature and high pressure environments.

Structural parts: Inconel X750 pipe can be used in aerospace structural parts such as support rods, connecting rods and springs to meet the requirements for high strength and corrosion resistance.

Other relevant knowledge:

Composition of Inconel X750 alloy: Inconel X750 alloy is mainly composed of alloy elements such as nickel, chromium, titanium and niobium. The reasonable ratio of these elements gives the alloy excellent high-temperature strength and corrosion resistance.

Heat Treatment and Processing: Inconel X750 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 aerospace industry.

Corrosion resistance: Inconel X750 pipe has good corrosion resistance and is able to withstand chemical media and corrosive environments in the aerospace industry, providing reliable performance.

Parameter:

Chemical Properties of Inconel X750

Element	Ni +Co	Cr	Nb	Ti	С	Mn	Si	Cu	AI	S	Iron
Chemical Composition (%)	70% Min	14%-17%	0.7%-1.2%	2.25%-2.75 %	0.08% max	1% max	0.5% max	0.30% max	0.4%-1.0%	0.01% max	5%-9%

Type we could offer

AMS Number	Alloy	Туре	U Cross Ref. N Spec S	Misc./Shape
AMS 5699 wire	Inconel X750	Nickel	N 0 7 7 5 0	Wire
AMS 5542 Custom Tube	Inconel X750	Nickel	N 0 7 7 5 0	Custom Tube
AMS 5542 Plate	Inconel X750	Nickel	N 0 7 7 5 0	Plate

AMS Number	Alloy	Туре	U N S	Cross Ref. Spec	Misc./Shape
AMS 5542 Sheet	Inconel X750	Nickel	N 0 7 5 0	-	Sheet
AMS 5542 Strip	Inconel X750	Nickel	N 0 7 5 0	-	Strip



Shape	Size(mm)
WIre	0.5-7.5
Rod/Bar	8.0-200
Strip	(0.5-2.5)*(5-180)
Tube	custom made
Plate	custom made

contact us email:victory@dlx-alloy.com Oem service: Welcome customized size We are experience factory for OEM&ODM service



Q & A:

Q: What are the typical applications for Inconel X750 tubes? A: Inconel X750 tubes find applications in various industries. They are commonly used in aerospace for engine components, exhaust systems, and thrust reversers.

Q: Can Inconel X750 tubes withstand extreme temperature conditions?A: Yes, Inconel X750 tubes exhibit excellent high-temperature strength and can withstand extreme temperature conditions.

