ASTM A312 TP310CB/31040 Stainless Steel Seamless Round Pipe For Petroleum Industries

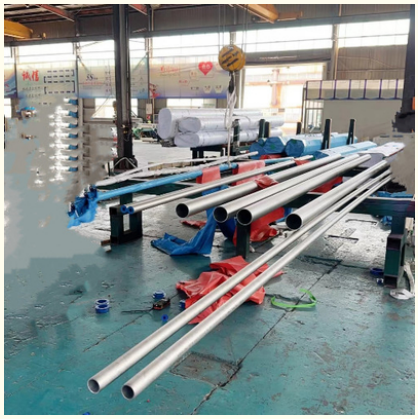
Our Product Introduction

Basic Information

- Place of Origin: Wenzhou,China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: TP310CB
- Minimum Order Quantity: MOQ500kg
- Packaging Details: In wooded cases or pallets,or as for clients requirement
- Delivery Time: 7-15 working days after receiving payment
- Payment Terms: L/C, D/P, T/T, Western Union
- Supply Ability: 1000 Ton/Tons per Month

Product Specification

- WT: SCH5-XXS
- Size: 1/8"-24"
- Surface Finish: Polishing, Hair Line,Pickling
- Price Terms: FOB,CIF,CFR,EXW
- Application: Industry
- Ends: Plain/Bevelled
- Highlight: **ASTM A312 Seamless Round Pipe**, **Petroleum Industries Seamless Round Pipe**, **TP310CB Stainless Steel Seamless Pipe**



Product Description

ASTM A312 TP310CB/31040 Stainless Steel Seamless Round Pipe For Chemical, Petroleum, Aerospace And Nuclear Industries

Characteristic

ASTM A312 TP310CB Seamless Pipe also known as UNS S31040 Pipes. ASTM A312 TP310CB welded pipe is quite resistance to hot corrosion. Stainless Steel 310CB Seamless Pipes and SS 310CB Welded Pipes has strength and toughness at cryogenic temperatures. AS compare to comparison to carbon steel, these 310CB Stainless Steel Pipes are tougher and tend to work harden rapidly. These ASME SA312 TP310CB Seamless Pipes has oxidation resistance to 2000°F. As well SS 310CB Seamless Pipe has moderate strength at high temperature.It is widely used in chemical, petroleum, aerospace and nuclear industries.

Corrosion resistance

310cb stainless steel has good corrosion resistance, especially in acidic environment corrosion resistance performance is particularly outstanding. In strong acid and alkali environments,310cb stainless steel can be stable for a long time without premature corrosion or damage.

Chemical Composition

A312 GRADES	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Nb	N
TP310Cb	S31040	0.08	2	0.045	0.03	1	24.0-26.0	19.0-22.0	0.75		10xC min 1.10 max	

Mechanical Properties

Grade	Density (kg/m3)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (m/m/0C)			Thermal Conductivity (W/m.K)		Specific Heat 0-1000C (J/kg.K)	Electrical Resistivity (n.m)
			0-100°C	0-315°C	0-538°C	at 100°C	at 500°C		
310CB	7750	200	15.9	16.2	17	14.2	18.7	500	720

To improve the corrosion resistance of steel, the following measures can be taken:

(1) to form a stable passivation film on the surface of the steel. Passivation is due to the action of metal and medium to produce a thin protective film, the existence of the protective film hinders the anode process, thus improving the chemical stability of the metal. After chromium is contained in the steel, chromium is also contained in the passivation film. The higher the chromium content in the steel, the higher the chromium content in the TP309cb stainless steel tube film, which will increase the stability of the film, and its thickness is above 1nm. Therefore, the corrosion resistance of stainless steel is mainly caused by a chromium-rich oxide film with a thickness of about 1nm or more. The type of medium and other elements in the steel will affect the stability of the passivation film.
(2) The steel obtains a single solid solution structure. For example, 18Cr-8Ni austenitic stainless steel has high corrosion resistance only after solution treatment to obtain a single uniform austenitic structure
(3) Increase the electrode potential of the solid solution. The corrosion resistance of the metal is closely related to the type, concentration, temperature, pressure and other conditions of the medium, and the oxidation capacity of the medium has the greatest impact.

Image

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