ASTM A312 TP310HCB Stainless Steel Seamless Pipe For Heat Exchangers

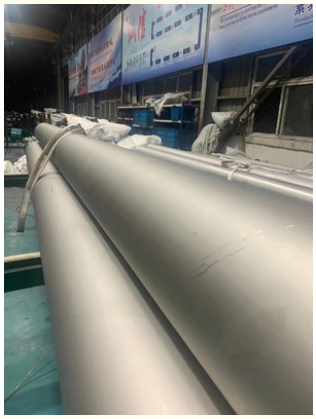
Our Product Introduction

Basic Information

- Place of Origin: Wenzhou,China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: TP310HCB
- 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: **TP310HCB Stainless Steel Seamless Pipe**, **ASTM A312 Steel Seamless Pipe**, **Heat Exchangers Seamless Pipe**



Product Description

ASTM A312 TP310HCB Stainless Steel Seamless Pipe For Heat Exchangers And In High Temperature

Characteristic

ASTM A312 TP310HCB Welded Pipe also known as UNS S31041 Pipes. SS 310HCB seamless pipe is quite resistance to hot corrosion. Stainless Steel 310HCB Seamless Pipes and SS 310HCB Welded Pipes has strength and toughness at cryogenic temperatures. AS compare to comparison to carbon steel, these 310HCB Stainless Steel Pipes are tougher and tend to work harden rapidly. These ASME SA312 TP310HCB Pipes has oxidation resistance to 2000°F.

A312 TP310HCb stainless steel tubes are widely used in the manufacture of pressure tanks, boilers, superheaters, heat exchangers and in high temperature and generally corrosive industrial environments.

Chemical Composition

A312 GRADES	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Nb	N
TP310HCb	S31041	0.04-0.10	2	0.045	0.03	1	24.0-26.0	19.0-22.0	0.75		10xC min 1.10 max	

Mechanical Properties

TENSILE STRENGTH	YIELD STRENGTH	ELONGATION %	HARDNESS
75000psi, 515Mpa	30000psi, 205Mpa	40 min	95 max

Physical Properties of ASTM A312 TP310HCB

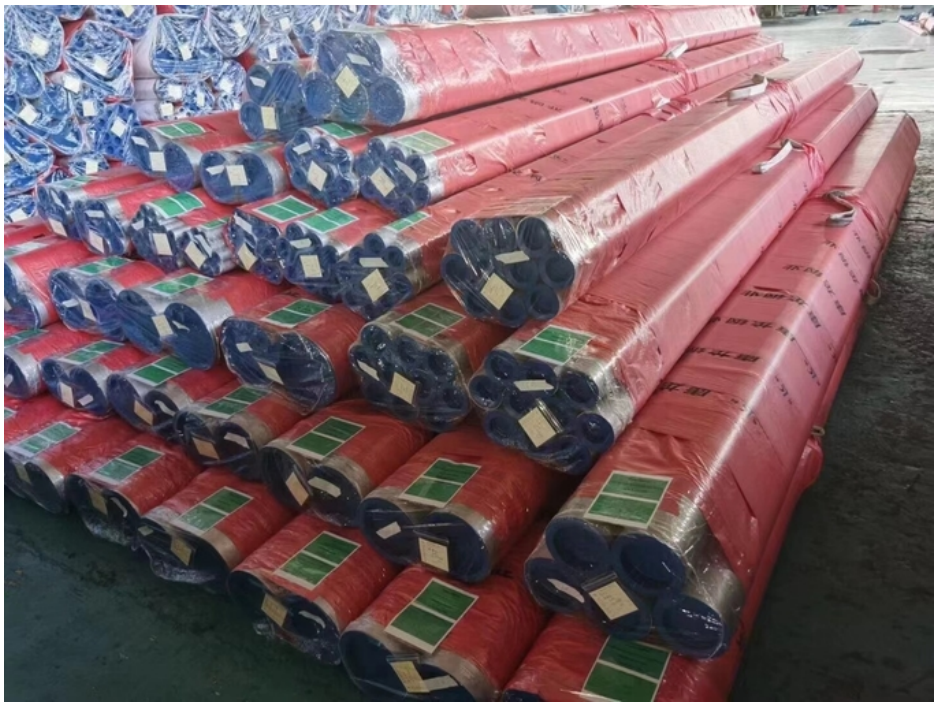
Grade	Density (kg/m3)	Elastic Modulus (GPa)	Mean Coefficient of Thermal Expansion (m/m/0C)			Thermal Conductivity (W/m.K)		Specific Heat 0-1000C (J/kg.K)	Electrical Resistivity (n.m)
			0-100°C	0-315°C	0-538 °C	at 100°C	at 500° C		
310HCB	7750	200	15.9	16.2	17	14.2	18.7	500	720

ASTM A312 Seamless Pipe Pipe should be made from stainless steel billet in hot rolling or cold drawn, no any welding process during manufacturing, seamless pipe has better pressure to withstand, annealing solution and pickling finishing condition, applied for high temperature and corrosion environment.

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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