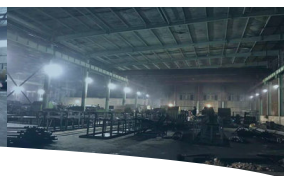




ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd
stainless-steelseamlesspipe.com



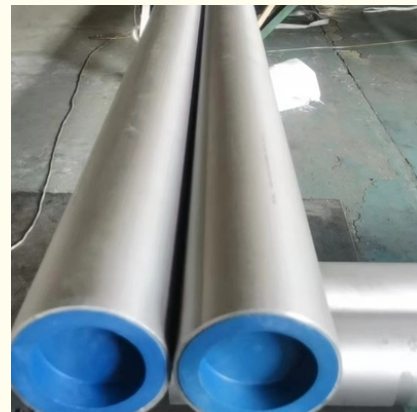
ASTM A312 TP309HCB/S30941 Seamless Stainless Steel Pipe For High Temperature Pipe

Our Product Introduction

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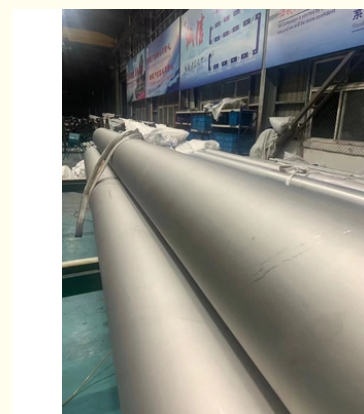
Basic Information

- Place of Origin: Wenzhou, China
- Brand Name: Zheheng
- Certification: ISO9001
- Model Number: TP309Hcb
- 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: **S30941 Seamless Stainless Steel Pipe,
TP309HCB Stainless Steel Pipe,
ASTM A312 SS Seamless Pipe**



Product Description

Characteristic

ASTM A312 TP 309HCB stainless steel pipes are austenitic chromium-nickel stainless steels that are often used for higher temperature applications. Grade 309HCB is the AISI designation for this material. 309HCB Stainless steel pipe are high-alloy steels which have higher corrosion resistance compared to other steels due to the presence of large amounts of chromium. SS 309HCB Pipe is a highly alloyed austenitic stainless steel used for its excellent oxidation resistance, high temperature strength and creep resistance. Stainless Steel 309HCB Seamless Pipes and SS 309HCB Welded Pipes used in different industries like oil & gas, Refineries, Fertilizers, Heat-Exchangers, Paper & Pulp, Pharmaceuticals, Chemicals, Water Treatment, Dairy, Sugar & Food Processing etc.

Chemical Composition

A312 GRADES	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	Ti	Nb	N
TP309HCB	S30941	0.04-0.10	2	0.045	0.03	1	22.0-24.0	12.0-16.0	0.75		10xC min 1.10 max	

Mechanical Properties

Grade	Tensile Strength (MPa) min	Yield Strength 0.2% Proof (MPa) min	Elongation (% in 50mm) min	Hardness	
				Rockwell B (HR B) max	Brinell (HB) max
309HCB	515	205	40	95	217

Physical Properties

Density (lb./ in^2) @ RT		0.29
Modulus of Elasticity in Tension (psi x 10^6)		29
Specific Heat (BTU/o F/lb.)	32 to 212 oF	0.12
Thermal Conductivity (BTU/hr/ft^2/ft)	212oF	9
	932oF	10.8
Mean Coefficient of Thermal Expansion (in. x 10^-6 per o F)	32 to 212oF	8.3
	32 to 600oF	9.3
	32 to 1,000oF	9.6
	32 to 1,200oF	10
Electrical Resistivity (micro ohms – cm)	at 70oF	39.8
Melting Point Range (oF)		2550 – 2650
Oxidation Resistance – Continuous Service(oF)		2000
Oxidation Resistance – Intermittent Service(oF)		1800

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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