



Material - JIS SUS 309 STB

Standard Specification for Steel Boiler and Heat Exchanger Tubes

Group - Ferrous Stainless Steel Alloys

Sub Group - JIS SUS 309 STB Steel Boiler and Heat Exchanger Tubes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Superheater, Tubes of Boiler and Heat Exchangers

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	Р%	0.040 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		_
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	520 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	26 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	90 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
SA-351 Grade CH10	ASME	USA	Casting	
1.4950	EN	European Union	Flat Products Made of Steels for Pressure Purpose	
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging	
J93401	UNS	USA	Casting	
X 6 CrNi 23-14	UNI	Italy	Plate, Sheets, Strip and Coil	
A743 CH10	ASTM	USA	Casting	
A351 CH10	ASTM	USA Casting		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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