

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		
Carbon	C %	0.080 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	22.000 - 24.000
Nickel	Ni %	12.000 - 15.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

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.
Impact in Joule	-

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

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