



Material - ASTM A 213 TP 309Cb

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A 213 TP 309Cb Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry - Steel and Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 16.000		
Niobium	Nb %	1.100 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 515 min. Yield Strength in Mpa 205 min. Elongation in % 35 min. Reduction of Area in % - Hardness in HB 192 max. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S30940	ASTM	USA	Steel, Plate, Sheet and Strip
309Cb	SAE	USA	Steel
A276 309Cb	ASTM	USA	Steel, Bar and Shapes
A314 309Cb	ASTM	USA	Steel, Bar, Rods and Forging
A358 309Cb	ASTM	USA	Steel and Pipe
A479 309Cb	ASTM	USA	Steel and Bar
A249 TP 309Cb	ASTM	USA	Steel and Tube

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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