

## Material - AISI 30309

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 - AISI 30309 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, Bar, Wire and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	Р%	0.045 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	586.1 - 1896.1
-	-	-	Yield Strength in Mpa	241.3 - 1792.6
-	-	-	Elongation in %	1 - 55
-	-	-	Reduction of Area in %	65 min.
-	-	-	Hardness in HB	160 - 170
-	-	-	Impact in Joule	122 - 162.7 J @ RT

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S30908	ASTM	USA	Steel, Plate, Sheet and Strip		
309	AMS	USA	Steel, Bar, Wire, Shape and Forging		
309	SAE	USA	Steel, Bar, Wire, Shape and Forging		
309 S 16	BS	British	Steel and Plates		
STS 309S	KS	Korea	Steel, Plate, Sheet and Strip		
SUH 309	JIS	Japan	Steel, Bar and Wire		
A182 F 309H	ASTM	USA	Steel, Pipe and Forging		

## 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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