



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - KS STS 309S

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 - KS STS 309S 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, Plate, Sheet and Strip

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 - 15.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	500 - 1130
			Yield Strength in Mpa	205 min.
			Elongation in %	20 min.
			Reduction of Area in %	60 min.
			Hardness in HB	187 max.
			Impact in Joule	-

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
SUH 309	JIS	Japan	Steel, Bar and Wire
30309	AISI	USA	Steel, Bar, Wire and Forging
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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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