

Material - KS STS 316

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 316 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, Sheet, Plate and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	10.000 - 14.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 1470
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	60 min.
-	-	-	Hardness in BHN	187 max.
-	-	-	Impact in Joule	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S32100	ASTM	USA	Steel, Plate, Sheet and Strip		
321	AISI	USA	Steel and Tube		
321	AMS	USA	Sheet, Bar, Wire, Shape and Forging		
321	AS	Australia	Steel, Sheet, Plate and Strip		
321	SAE	USA	Steel		
SUS 321	JIS	Japan	Steel, Sheet, Plate and Strip		
A182 F321	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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