

Material - AISI 301

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 301 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, Bar and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.	Solution Annealing	
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	6.000 - 8.000		
Nitrogen	N %	0.100 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	515 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	217 max.
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
A240 UNS S30100	ASTM	USA	Steel, Plate, Sheet and Strip		
301	SAE	USA	Steel		
301 S 21	BS	British	Steel, Plate, Sheet and Strip		
STS 301	KS	Korea	Steel, Plate, Sheet and Strip		
S30100	UNS	USA	Steel		
301	AS	Australia	Steel, Plate, Sheet and Strip		
S30103	UNS	USA	Steel		

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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