

Material - AS 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 - AS 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, Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	Р%	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Molybdenum	Mo %	0.350 max.		
Nickel	Ni %	6.000 - 8.000		
Copper	Cu %	0.350 max.	Mechanical Properties	
Nitrogen	N %	0.100 max.	Tensile Strength in Mpa	520 min.
Iron	Fe %	Balance	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in HB</mark>	219 max.
-	-		Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
A240 UNS S30100	ASTM	USA	Steel, Plate, Sheet and Strip	
301	AISI	USA	Steel, Sheet, Bar 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	
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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