

Material - ASTM A240 UNS S30103

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 - ASTM A240 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 %	0.030 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%	16.000- 18.000		
Nickel	Ni%	6.000 - 8.000		
Nitrogen	N%	0.200 max.		
Iron	Fe%	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	45 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	241 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
301	AISI	USA	Steel, Sheet, Bar and Strip
301	SAE	USA	Steel
301 S 21	BS	British	Steel, Plate, Sheet and Strip
STS301	KS	Korea	Steel, Plate, Sheet and Strip
S30100	UNS	USA	Steel
301	AS	Australia	Steel, Plate, Sheet and Strip
S30103	UNS	USA	Steel

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