

# Material: ASTM A240 UNS S30100

## 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 %	0.150 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 %	0.100 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	515 min.
			Yield Strength in Mpa	205 min.
			Elongation in %	40 min.
			Reduction of Area in %	-
			Hardness in HB	217 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
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

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