

Material: ASTM A240 UNS S31600

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 %	0.080 max.	Solution Annealing	
Silicon	Si %	0.750 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	10.000 - 14.000		
Molybdenum	Mo %	2.000 - 3.000		
Nitrogen	N %	0.100 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	515 min.
-	-	-	Yield Strength in Mpa	205 min.
-	-	-	Elongation in %	40 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	217 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
316L	AISI	USA	Bar, Wire, Strip, Plate, Sheet and Forging
1.4404	DIN	Germany	Cold Rolled, Strips, Slit Coils and Sheets
1.4404	EN	European Union	Rod, Bars, Wire and Forging
316 S 11	BS	British	Bright Bars, Hot Rolled and Cold Rolled Coil
SUS 316L	JIS	Japan	Hot Rolled Equal Leg Angles
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
ASTM A 351 CF3M	ASTM	USA	Casting

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