

Material: ASTM A240 UNS S31603

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 %	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.				
Iron	Fe %	Balance				
-	-	-	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	485 min.
-	-	-			Yield Strength in Mpa	170 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
A743 CF3M	ASTM	USA	Casting
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

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