

# Material: AISI 316L

## 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:** AISI 316L Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.250 - 2.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	10.000 - 14.000		
Molybdenum	Mo %	2.000 - 3.000		
Copper	Cu %	1.000 Max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	450 - 1030
			Yield Strength in Mpa	170 min.
			Elongation in %	5 min.
			Reduction of Area in %	35 min.
			Hardness in HB	217 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SUS 316L	JIS	Japan	Bar, Wire, Strip, Plat, Sheet and Forging
1.4404	DIN	Germany	Cold Rolled, Strips, Slit, Coils and Forging
1.4404	EN	European Union	Rod, Bars, Wire and Forging
316 S11	BS	British	Forging
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF3M	ASTM	USA	Casting
A351 CF13M	ASTM	USA	Casting

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