

# 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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	
Mechanical Properties	
Tensile Strength in Mpa	
Yield Strength in Mpa	
Elongation in %	
Reduction of Area in %	
Hardness in HB	
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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