

Material: AISI 304L

Standard Specification for Iron-Chromium-Nickel, Bar Wire, Strip, Plate, Sheet, and Forging

Group: Ferrous Stainless Steel Alloys

Sub Group: AISI 304L Iron-Chromium-Nickel, Bar Wire, Strip, Plate, Sheet, and Forging

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

Grade Belongs to the Industry: Bar Wire, Strip, Plate, Sheet, and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	18.000 - 20.000
Nickel	Ni %	8.000 - 12.000
Molybdenum	Mo %	0.500 max.
Copper	Cu %	0.750 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	450 - 1375
Yield Strength in Mpa	240 min.
Elongation in %	1.4 - 71
Reduction of Area in %	35 - 78.5
Hardness in HB	126 - 255
Impact in Joule	84.5 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4306	DIN	Germany	Cold Rolled, Strips, Slit, Coils and Forging
1.4307	EN	European Union	Rod, Bars, Wire and Forging
304 S11	BS	British	Bright Bars, Hot Rolled and Cold Rolled, Coil
SUS 304L	JIS	Japan	Hot Rolled Equal Leg Angles
04CH 18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF3	ASTM	USA	Casting
A351 CF3	ASTM	USA	Casting

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