



Material - JIS SUS 316L

Standard Specification for Iron-Chromium-Nickel Alloy Bar

Group - Ferrous Stainless Steel Alloys

Sub Group - JIS SUS 316L Iron-Chromium-Nickel Alloy Bar

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

Grade Belongs to the Industry - Bar

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.000 - 18.000		
Nickel	Ni %	12.000 - 15.000		
Molybdenum	Mo %	2.000 - 3.000		
Titanium	Ti %	0.200 max.	Mechanical Properties	
Tungsten	W %	0.200 max.	Tensile Strength in Mpa	480 - 1225
Iron	Fe %	Balance	Yield Strength in Mpa	175 min.
-	-	-	Elongation in %	1 - 60
-	-	-	Reduction of Area in %	60 min.
-	-	-	Hardness in HB	90 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4404	DIN	Germany	Cold Rolled, Strips, Slit, Coils and Forging
1.4404	EN	European Union	Rod, Bars, Wire and Forging
361L	AISI	USA	Bar, Wire, Strip, Plat, Sheet 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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.