

Material: BS 316 S 11

Standard Specification for steel forgings for pressure purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 316 S 11 steel forgings for pressure purposes

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

Grade Belongs to the Industry: 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 %	0.025 max.
Chromium	Cr %	16.500 - 18.500
Nickel	Ni %	11.000 - 14.000
Molybdenum	Mo %	2.000 - 2.500
Titanium	Ti %	0.100 max.
Niobium	Nb %	0.200 max.
Copper	Cu %	0.700 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	490 - 850
Yield Strength in Mpa	190 min.
Elongation in %	12 min.
Reduction of Area in %	-
Hardness in HB	320 max.
Impact in Joule	55 @ RT

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
SUS 316L	BS	British	Bar
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF3M	ASTM	USA	Casting
A351 CF13M	ASTM	USA	Casting

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