



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			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 %	0.025 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	11.000 - 14.000		
Molybdenum	Mo %	2.000 - 2.500		
Titanium	Ti %	0.100 max.	Mechanical Properties	
Niobium	Nb %	0.200 max.	Tensile Strength in Mpa	490 - 850
Copper	Cu %	0.700 max.	Yield Strength in Mpa	190 min.
Iron	Fe %	Balance	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

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

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