

Material: EN 1.4404

Standard Specification for Open Die Steel Forgings for General Engineering Purposes; Austenitic Stainless Steel Rod, Bar, Wire

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4404 Open Die Steel Forgings for General Engineering Purposes; Austenitic Stainless Steel Rod, Bar, Wire

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

Grade Belongs to the Industry: Rod, Bar, Wire and 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 %	0.030 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	10.000 - 13.000		
Molybdenum	Mo %	2.000 - 2.500		
Nitrogen	N %	0.110 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	490 -2100
			Yield Strength in Mpa	190 min.
			Elongation in %	12 min.
			Reduction of Area in %	63 min.
			Hardness in HB	215 max.
			Impact in Joule	60 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4404	DIN	Germany	Cold Rolled, Strips, Slit, Coils and Forging
SUS 304L	JIS	Japan	Hot Rolled Equal Leg Angles
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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