



Material - GOST 30CH13

Standard Specification for High Strength at Elevated Temperatures

Group - Ferrous Stainless Steel Alloys

Sub Group - GOST 5632 High Strength at Elevated Temperatures

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

Grade Belongs to the Industry - Bar, Wire, Shapes and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.260 - 0.350	Annealing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	12.000 - 14.000		
Nickel	Ni %	0.600 max.		
Copper	Cu %	0.300 max.		
Titanium	Ti %	0.200 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 735 min. Yield Strength in Mpa 588 min. Elongation in % 12 min. Reduction of Area in % - Hardness in HB 235 - 277 Impact in Joule 35 J @ RT	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4028	EN	European Union	Forging
SUS 420J2	JIS	Japan	Forging
420	AISI	USA	Bar, Wire, Shapes and Forging
2304	SS	Sweden	Bar, Wire, Shapes and Forging
X 30Cr13	UNI	Italy	Bar, Wire, Shapes and Forging
420 S 45	BS	British	Bar, Wire, Shapes and Forging
A743 CA20	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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