

# 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		
Carbon	C %	0.260 - 0.350
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Hardening + Tempering

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

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

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