

Material: AISI 4020

Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application, and Cobalt Alloy for High Strength at Elevated Temperatures

Group: Ferrous Mild Steel Alloys

Sub Group: AISI 4020 Castings, Investment, Carbon and Low Alloy Steel for General Application, and Cobalt Alloy for High Strength at Elevated Temperatures

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

Grade Belongs to the Industry: Forging, Bar, Wire and Shape

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	1.350 - 1.750		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.350 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.250 - 0.550		
Copper	Cu %	0.050 max.		
Tungsten	W %	0.250 max.		
Other	%	1.000 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8830	EN	European Union	Steel
1.8866	DIN	Germany	Steel
C450L0	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
P355QH	UNI	Italy	Steel
C450	AS	Australia	Steel
A732 6N	ASTM	USA	Casting

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