

## 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		
Carbon	C %	0.350 max.
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
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

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
C450LO	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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