

Material: ASTM A732 6N

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: ASTM A732 / A7323M Casting, Investment, Carbon and Low Alloy Steel for General Application

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

Grade Belongs to the Industry: Casting

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 %	0.500 max.
Tungsten	W %	0.250 max.
other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	
Mechanical Properties	
Tensile Strength in Mpa	621 min.
Yield Strength in Mpa	414 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4020	AISI	USA	Forging, Bar, Wire, and Shape
1.8830	EN	European Union	Steel
1.8866	WN	Germany	Steel
C 450 LO	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
P 355 QH	UNI	Italy	Steel
C450AS	AS	Australia	Steel

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