

## Material: ASTM A732 11Q

### 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 %	0.150 - 0.250
Silicon	Si %	0.200 - 0.800
Manganese	Mn %	0.400 - 0.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.350 max.
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
Copper	Cu %	0.500 max.
Tungsten	W %	0.100 max.
other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

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

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4620	AISI	USA	Forging, Bar, Wire, and Shape
4340	SAE	USA	Bar, Wire, Sheet, Strip and Forging
4620	AMS	USA	Bar and Forging
J12094	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-

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