

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			Heat Treatment
Carbon	C %	0.150 - 0.250	Annealing or Normalizing or Hardening + Tempering
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.	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 -
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	
-	-	-	

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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