

Material: ASTM A732 8Q

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 %	0.350 - 0.450	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.800 - 1.100		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.500 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	1241 min.
other	Ot %	1.000 max.	Yield Strength in Mpa	1000 min.
Iron	Fe %	Balance	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
4140	AISI	USA	Forging, Bar, Wire, and Shape
J14049	UNS	USA	Casting
4140	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4140	AMS	USA	Bar and Forging
K11542	UNS	USA	Steel
K 14047	UNS	USA	Steel
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