



Material - ASTM A732 13Q

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 Normalising or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.650 - 0.950		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.400 - 0.700		
Nickel	Ni %	0.400 - 0.700		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.500 max.		
Tungsten	W %	0.100 max.		
other	Ot %	1.000 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	724 min.
-	-	-	Yield Strength in Mpa	586 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
8620	AISI	USA	Steel
8620	SAE	USA	Steel, Bar, Forging and Tube
8620	AMS	USA	Steel
J12048	UNS	USA	Casting
J13047	UNS	USA	Casting
A487 4A	ASTM	USA	Casting
A487 4B	ASTM	USA	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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