



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A487 4(C)

Standard Specification for Steel Castings Suitable for Pressure Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A487 / AA87M Steel Castings Suitable for Pressure Service

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 - 0.800		
Nickel	Ni %	0.400 - 0.800		
Molybdenum	Mo %	0.150 - 0.300		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Tungsten	W %	0.100 max.	Mechanical Properties	
Other	Ot %	0.600 max.	Tensile Strength in Mpa	620 min.
Iron	Fe %	Balance	Yield Strength in Mpa	415 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	35 min.
			Hardness in HB	235 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13047	UNS	USA	Casting
8620	AISI	USA	Forging, Bar, Wire, and Shape
8620	SAE	USA	Bar, Wire, Sheet, Strip and Forging
8620	AMS	USA	Bar and Forging
J12048	UNS	USA	Casting
A487 4B	ASTM	USA	Casting
A487 4D	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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