

Material - ASTM A487 4(B)

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.		
			Mechanical Properties	
Vanadium	V %	0.030 max.	Tensile Strength in Mpa	725 - 895
Tungsten	W %	0.100 max.	Yield Strength in Mpa	585 min.
Other	Ot %	0.600 max.	Elongation in %	17 min.
Iron	Fe %	Balance	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	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 4A	ASTM	USA	Casting
A487 4E	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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