

Material - ASTM A487 11(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 %	0.050 - 0.200	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.800		
Nickel	Ni %	0.700 - 1.100		
Molybdenum	Mo %	0.450 - 0.650		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	725 - 895
Other	Ot %	0.500 max.	Yield Strength in Mpa	585 min.
Iron	Fe %	Balance	Elongation in %	17 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12082	UNS	USA	Casting
A487 11A	ASTM	USA	Casting
J12084	UNS	USA	Casting
1.8719	DIN	Germany	Steel
1.8920	EN	European Union	Steel
9386 Type 12	AMS	USA	Casting
K11576	UNS	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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