

Material - ASTM A487 12(A)

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 %	0.400 - 0.700		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.900		
Nickel	Ni %	0.600 - 1.000		
Molybdenum	Mo %	0.900 - 1.200		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	485 - 655
Other	Ot %	0.500 max.	Yield Strength in Mpa	275 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22000	UNS	USA	Casting
A487 12B	ASTM	USA	Casting
A217 WC5	ASTM	USA	Casting
SA-487 12A	ASME	USA	Casting
SA-487 12B	ASME	USA	Casting
SA-217 WC5	ASME	USA	Casting
A487 Grade 6N	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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