



## Material - ASTM A487 9(D)

### 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 - 0.330	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	0.600 - 1.000		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.750 - 1.100		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.150 - 0.300		
Tungsten	W %	0.100 max.		
Vanadium	V %	0.030 max.		
Copper	Cu %	0.500 max.	Mechanical Properties	
Other	Ot %	1.000 max.	Tensile Strength in Mpa	690 min.
Iron	Fe %	Balance	Yield Strength in Mpa	515 min.
-	-	-	Elongation in %	17 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
J13345	UNS	USA	Casting
A487 9A	ASTM	USA	Casting
A487 9B	ASTM	USA	Casting
A487 9C	ASTM	USA	Casting
A487 9E	ASTM	USA	Casting
SA-487 9A	ASME	USA	Casting
SA-487 9B	ASME	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](mailto:marketing@gravitycastindia.com)**

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