



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A487 9(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 - 0.330	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.	<b>Mechanical Properties</b> Tensile Strength in Mpa      620 min. Yield Strength in Mpa      415 min. Elongation in %      18 min. Reduction of Area in %      35 min. Hardness in BHN      - Impact in Joule      -	
Other	Ot %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13345	UNS	USA	Casting
A487 9B	ASTM	USA	Casting
A487 9C	ASTM	USA	Casting
A487 9D	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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**