



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

## Material - ASME SA-487 Grade 13A

**Standard Specification for Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - ASME SA-487 Grade 13A Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts**

**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 - 1.100		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	1.400 - 1.750		
Molybdenum	Mo %	0.200 - 0.300		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.030 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	620 - 795
Yield Strength in Mpa	415 min.
Elongation in %	18 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13080	UNS	USA	Casting
SA-487 Grade 13B	ASME	USA	Casting
A487 13A	ASTM	USA	Casting
A732 1Q	ASTM	USA	Casting
J24054	UNS	USA	Casting
4340	AISI	USA	Forging, Bar, Wire, and Shape
A487 13A	ASTM	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**