



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

## Material - ASTM A487 CA15 (D)

**Standard Specification for Steel Castings Suitable for Pressure Service**

**Group - Ferrous Stainless 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 %	0.150 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	11.500 - 14.000		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	0.500 max.		
Copper	Cu %	0.500 max.		
Vanadium	V %	0.050 max.		
Tungsten	W %	0.100 max.	Mechanical Properties	
Other	Ot %	0.500 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
A217 CA 15	ASTM	USA	Casting
A487 CA 15A	ASTM	USA	Casting
5351	AMS	USA	Casting
410	AISI	USA	Bar, Wire, Shape and Forging
410 C 21	BS	British	Casting
15Ch13L	GOST	Russia	Casting
385 G X 12 Cr 13	SFS	Finland	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.

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