



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-487 Grade CA 15M Class A

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-487 Grade CA 15M Class A 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 %	0.150 max.	Annealing or Hardening + Tempering	
Silicon	Si %	0.650 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	11.500 - 14.000		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	0.150 - 1.000		
Vanadium	V %	0.050 max.		
Tungsten	W %	0.100 max.		
Copper	Cu %	0.500 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	620 - 795
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-487 Grade CA 15M	ASME	USA	Casting
J91151	UNS	USA	Casting
410	SAE	USA	Bar, Wire, Shapes and Forging
A 487 CA 15M	ASTM	USA	Casting
A217 CA 15	ASTM	USA	Casting
A487 CA 15	ASTM	USA	Casting
A743 CA 15M	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

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