



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 3444 Grade 11

Standard Specification for Corrosion Resistant High Alloy Steel and Nickel Base Castings for General Applications

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 3444 Corrosion Resistant High Alloy Steel and Nickel Base Castings for General Applications

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		
Molybdenum	Mo %	0.150 - 1.000		
Nickel	Ni %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	620 min.
			Yield Strength in Mpa	450 min.
			Elongation in %	16 min.
			Reduction of Area in %	30 min.
			Hardness in HB	241 max.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A487 CA 15M	ASTM	USA	Casting
SA-487 Grade CA 15M	ASME	USA	Casting
SA-487 Grade CA 15MA	ASME	USA	Casting
J91151	UNS	USA	Casting
410	SAE	USA	Bar, Wire, Shape and Forging
A 217 CA 15	ASTM	USA	Casting
A743 CA 15	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

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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