



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

## Material - IS 10774 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 10774 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 %	0.080 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	18.000 - 21.000		
Molybdenum	Mo %	3.000 - 4.000		
Nickel	Ni %	9.000 - 13.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	520 min.
			Yield Strength in Mpa	240 min.
			Elongation in %	22 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CG3M	ASTM	USA	Casting
SA-351 CG3M	ASME	USA	Casting
J92999	UNS	USA	Casting
1.4412	EN	European Union	Casting
H6A	AS	Australia	Casting
317 C 12	BS	British	Casting
AM X 7 CrNiMo 20-11	UNE	Spain	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**