



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

## Material - UNS J93370

**Standard Specification for Castings Iron-Chromium, Iron-Chromium-Nickel for General Engineering Purposes**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - UNS J93370 Castings Iron-Chromium, Iron-Chromium-Nickel for General Engineering Purposes**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	24.500 - 26.500		
Molybdenum	Mo %	1.750 - 2.250		
Nickel	Ni %	4.750 - 6.000		
Copper	Cu %	2.750 - 3.250		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 690 min. Yield Strength in Mpa 485 min. Elongation in % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
332C13	BS	British	Casting
A 351 Grade CD4MCu	ASTM	USA	Casting
A 743 Grade CD-4MCu	ASTM	USA	Casting
A 744 Grade CD-4MCu	ASTM	USA	Casting
A 890 CD4MCu	ASTM	USA	Casting
2074/H10A	AS	Australia	Casting
CD-4MCu	NBR	Brazil	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**