



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

## Material - IS 10774 Grade 14

Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

Group - Non-Ferrous Nickel Alloys

Sub Group - IS 10774 Grade 14 Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardning			
Silicon	Si %	1.000 max.				
Manganese	Mn %	1.000 max.				
Chromium	Cr %	1.000 max.				
Iron	Fe %	6.000 max.				
Molybdenum	Mo %	26.000 - 33.000				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.030 max.				
Cobalt	Co %	2.500 max.				
Vanadium	V %	0.600 max.				
Nickel	Ni %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 min.		
-	-	-	Yield Strength in Mpa	320 min.		
-	-	-	Elongation in %	6 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N-12M	NMX	Maxico	Casting
A 743 Grade N-12M	ASTM	USA	Casting
N10001	UNS	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](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**