

## Material - ASTM A 743 Grade N-12M

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

## Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 743 Grade N-12M Castings, Iron-Chromium, Iron-Choromium-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.		
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	1.000 max.	As-Cast or Annealing or Age Hardning	
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.	Mechanical Properties	
Vanadium	V %	0.600 max.	Tensile Strength in Mpa	495 min.
Nickel	Ni %	Balance	Yield Strength in Mpa	315 min.
	-	-	Elongation in %	6 min.
	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-
		-		

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
10774 Grade 14	IS	India	Casting	
N-12M	NMX	Maxico	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

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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