



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A 743 Grade CW-12M

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 743 Grade CW-12M 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 %	1.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	15.500 - 20.000		
Iron	Fe %	7.500 max.		
Molybdenum	Mo %	16.000 - 20.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Cobalt	Co %	2.500 max.		
Vanadium	V %	0.400 max.		
Tungsten	W %	5.250 max.	Mechanical Properties Tensile Strength in Mpa 495 min. Yield Strength in Mpa 315 min. Elongation in % 4 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10774 Grade 13	IS	India	Casting
CW-12M	NMX	Mexico	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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