



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

## Material - ASTM A990 CW2MC

**Standard Specification for Castings, Iron-Nickel-Chromium and Nickel Alloys, Specially Controlled for Pressure Retaining Parts for Corrosive Service**

**Group - Non Ferrous Nickel Alloys**

**Sub Group - ASTM A990 CW2MC Iron-Nickel-Chromium and Nickel Alloys, Specially Controlled for Pressure Retaining Parts for Corrosive Service**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.450 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	20.000 - 23.000		
Copper	Cu %	0.500 max.		
Molybdenum	Mo %	8.000 - 10.000		
Tungsten	W %	0.500 max.		
Vanadium	V %	0.200 max.		
Niobium	Nb %	3.100 - 4.500	<b>Mechanical Properties</b> Tensile Strength in Mpa      485 min. Yield Strength in Mpa      275 min. Elongation in %      25 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
Iron	Fe %	5.000 max.		
Nickel	Ni %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**