



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

## Material - ASTM A 744 CN3MCu

**Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant for Severe Service**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A 744 CN3MCu Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	19.000 - 22.000		
Nickel	Ni %	27.500 - 30.500		
Molybdenum	Mo %	2.000 - 3.000		
Copper	Cu %	3.000 - 3.500		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   425 min. Yield Strength in Mpa   170 min. Elongation in %   35 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
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-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J80020	UNS	USA	Casting
A990 CN3MCu	ASTM	USA	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**