



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

## Material - ASTM A744 Grade CN7MS

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

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A744 / A744M 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 %	0.070 max.	Solution Annealing	
Silicon	Si %	2.500 - 3.500		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	22.000 - 25.000		
Molybdenum	Mo %	2.500 - 3.000		
Copper	Cu %	1.500 - 2.000		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   485 min. Yield Strength in Mpa   205 min. Elongation in %   35 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CN7MS	ASTM	USA	Casting
J94650	UNS	USA	Casting
G X 2 NiCrMoCuN 25-20	DIN	Germany	Casting
T6 CuMoNiCr 200	STAS	Romania	Casting
1.4536	DIN	Germany	Casting
A743 J94650	ASTM	USA	Casting
CN-7MS	NBR	Brazil	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.

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