



Material - ASTM A744 Grade CK3MCuN

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A744 Grade CK3MCuN 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 %	0.025 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.200 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.500 - 20.500		
Nickel	Ni %	17.500 - 19.500		
Molybdenum	Mo %	6.000 - 7.000		
Copper	Cu %	0.500 - 1.000		
Nitrogen	N %	0.180 - 0.240		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 550 min. Yield Strength in Mpa 260 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 CK3MCuN	ASTM	USA	Casting
SA-351 CKMCuN	ASME	USA	Casting
Z 4 CND 19.13 M	AFNOR NF	France	Casting
317 C 12	BS	British	Casting
422940	CSN	Czech Republic	Casting
J92810	UNS	USA	Casting
J93254	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

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