

Material - ASTM A744 Grade CN3MN

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A744 Grade CN3MN 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 %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	20.000 - 22.000		
Nickel	Ni %	23.500 - 25.500		
Molybdenum	Mo %	6.000 - 7.000		
Copper	Cu %	0.750 max.	Mechanical Properties	
Nitrogen	N %	0.180 - 0.260	Tensile Strength in Mpa	550 min.
Iron	Fe %	Balance	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
SA-351 CN3MN	ASME	USA	Casting
1.4585	DIN	Germany	Casting
J94651	UNS	USA	Casting
Ao X 10 CrNiMoCuNb 18-18	MSZ	Hungary	Casting
G X 7 CrNiMoCuNb 18-18	DIN	Germany	Casting
A351 CN3MN	ASTM	USA	Casting
A743 CN3MN	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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