

## Material: ASTM A743 CN3MN

### Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, for General Application

**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.		
Nitrogen	N %	0.180 -0.260		
Iron	Fe %	Balance	<b>Mechanical Properties</b> 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
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
1.4588	ISO	International	Casting

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