



## Material - UNS J94651

### Standard Specification for Austenitic Chromium Nickel Molybdenum Nitrogen Stainless Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS J94651 Austenitic Chromium Nickel Molybdenum Nitrogen Stainless Steel Casting

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		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4585	DIN	Germany	Casting
SA-351 CN3MN	ASME	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
A744 CN3MN	ASTM	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](mailto:marketing@gravitycastindia.com)**

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