

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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

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
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

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