

Material: MSZ Ao X 10 CrNiMoCuNb 18-18

Standard Specification for Steel Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: MSZ Ao X 10 CrNiMoCuNb 18-18 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 %	0.120 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	17.000 - 19.000		
Molybdenum	Mo %	2.500 - 3.500		
Copper	Cu %	1.800 - 2.300		
Niobium	Nb %	8xC < Nb < 1.1%		
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
1.4585	DIN	Germany	Casting
J94651	UNS	USA	Casting
SA-351 CN3MN	ASME	USA	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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