

Material: DIN 1.4585

Standard Specification for Stain Steels Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4585 Stain Steels Casting

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	19.000 - 21.000		
Molybdenum	Mo %	2.000 - 2.500		
Copper	Cu %	1.800 - 2.400		
Niobium	Nb %	8 X %C - 1.000		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 441.3 - 637.4 Yield Strength in Mpa 176.5 min. Elongation in % 15 min. Reduction of Area in % - Hardness in HB 130-180 Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 CN3MN	ASME	USA	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
A744 CN3MN	ASTM	USA	Casting

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