

Material: ASME SA-351 CN7M

Standard Specification for Austenitic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

Group: Ferrous Stainless Steel Alloys

Sub Group: ASME SA-351 CN7M Austenitic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	19.000 - 22.000		
Nickel	Ni %	27.500 - 30.500		
Molybdenum	Mo %	2.000 - 3.000		
Copper	Cu %	3.000 - 4.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 425 min. Yield Strength in Mpa 170 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
1.4500 DIN	DIN	Germany	Casting
SCS 23	JIS	Japan	Centrifugal Cast, Steel, Pipes.
G X 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A744 CN7M	ASTM	USA	Casting
A743 CN7M	ASTM	USA	Casting
A351 CN7M	ASTM	USA	Casting

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