

Material: ASTM A351 CN7M

Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A351 / 351M Castings, Austenitic, for Pressure-Containing Parts

Application: Intended for Valves, Pumps, General Engineering, Automobile 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
SA-351 CN7M	ASME	USA	Casting
1.45	DIN	Germany	Casting
SCS 23	JIS	Japan	Centrifugal Cast, Steel, Pipes
GX 5 NiCrCuMo 29-21	UNI	Italy	Casting
F.8417	UNE	Spain	Casting
A743 CN7M	ASTM	USA	Casting
A744 CN7M	ASTM	USA	Casting

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