

Material: ASTM A744 CN7M

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A744 / A744M Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.070 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

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	52.2 - 53.4 @ RT

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
A351 CN7M	ASTM	USA	Casting
N08007	UNS	USA	Casting

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