

Material: ASTM A 743 Grade CN-7M

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 743 Grade CN-7M Steel Castings for General Engineering Purposes

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
Molybdenum	Mo %	2.000 - 3.000
Nickel	Ni %	27.500 - 30.500
Copper	Cu %	3.000 - 4.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

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
332C11	BS	British	Casting
Z 2 NCDU 25.20.04 M	AFNOR NF	France	Casting
2074/H9A	AS	Australia	Casting
A 351 Grade CN7M	ASTM	USA	Casting
A 743 N08007	ASTM	USA	Casting
A 744 Grade CN-7M	ASTM	USA	Casting
SA-351 Grade CN7M	ASME	USA	Casting

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