

Material: NMX N-12M

Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

Group: Non-Ferrous Nickel Alloys

Sub Group: NMN N-12M Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.120 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	1.000 max.
Iron	Fe %	6.000 max.
Molybdenum	Mo %	26.000 - 33.000
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Cobalt	Co %	2.500 max.
Vanadium	V %	0.600 max.
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardening	

Mechanical Properties	
Tensile Strength in Mpa	495 min.
Yield Strength in Mpa	315 min.
Elongation in %	6 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10774 Grade 14	IS	India	Casting
A 743 Grade N-12M	ASTM	USA	Casting
N10001	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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