

Material: IS 10774 Grade 14

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

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 10774 Grade 14 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			Heat Treatment	
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardening	
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	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 min.
-	-	-	Yield Strength in Mpa	320 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
N-12M	NMX	Mexico	Casting
A 743 Grade N-12M	ASTM	USA	Casting
N10001	UNS	USA	Casting
-	-	-	-
-	-	-	-
-	-	-	-
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