

Material: ASTM A 743 Grade N-12M

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

Group: Non-Ferrous Nickel Alloys

Sub Group: ASTM A 743 Grade 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			Heat Treatment	
Carbon	C %	0.120 max.	As-Cast or Annealing or Age Hardning	
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 495 min. Yield Strength in Mpa 315 min. Elongation in % 6 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
10774 Grade 14	IS	India	Casting
N-12M	NMX	Mexico	Casting
N10001	UNS	USA	Casting
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