

Material: IS 3444 Grade 21

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

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 3444 Grade 21 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 %	1.000 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Copper	Cu %	1.250 max.		
Iron	Fe %	3.000 max.		
Nickel	Ni %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	350 min.
-	-	-	Yield Strength in Mpa	120 min.
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 743 Grade CZ-100	ASTM	USA	Casting
A 744 Grade CZ-100	ASTM	USA	Casting
CZ-100	NMX	Mexico	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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