

Material: IS 11286 Grade 4A

Standard Specification for Corrosion Resistant High Alloy Steel Nickel Base and Cobalt Base Investment Castings for Severe Applications

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 11286 Grade 4A Corrosion Resistant High Alloy Steel Nickel Base and Cobalt Base Investment Castings for Severe Applications

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.350 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.030 max.
Iron	Fe %	3.500 max.
Sulphur	S %	0.030 max.
Copper	Cu %	26.000 - 33.000
Nickel	Ni %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	175 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
3444 Grade 22	IS	India	Casting
M-35-2	NBR	Brazil	Casting
M-35-2	NMX	Mexico	Casting
A 743 Grade M-35-2	ASTM	USA	Casting
A 744 Grade M-35-2	ASTM	USA	Casting
-	-	-	-
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