

Material: IS 12391 FENI 50

Standard Specification for Iron Nickel Controlled Expansion Sealing Alloys Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 12391 FENI 50 Iron Nickel Controlled Expansion Sealing Alloys Casting

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.050 max.
Silicon	Si %	0.300 max.
Manganese	Mn %	0.600 max.
Chromium	Cr %	0.250 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Aluminium	Al %	0.100 max.
Cobalt	Co %	0.020 max.
Nickel	Ni %	50.000 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	570 min.
Yield Strength in Mpa	290 min.
Elongation in %	33 min.
Reduction of Area in %	-
Hardness in HV	135 - 170
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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