



## **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			Heat Treatment	
Carbon	C %	0.050 max.		
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.600 max.	As-Cast or Annealing or Age Hardning	
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.	Mechanical Properties	
Iron	Fe %	Balance	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
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table					
Material	Standard	Country	Grade Belong to the Industry		
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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