

# Material: IS 12391 FENI 48

## Standard Specification for Iron Nickel Sealing Alloys Castings

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** IS 12391 FENI 48 Iron Nickel Sealing Alloys Castings

**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.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.800 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 %	48.000 min.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      570 min. Yield Strength in Mpa      300 min. Elongation in %      29 min. Reduction of Area in %      - Hardness in HV      130 - 160 Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12391 FENI 42	IS	India	Casting
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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)