



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 12391 FENI 42

Standard Specification for Iron Nickel Sealing Alloys Castings

Group - Non-Ferrous Nickel Alloys

Sub Group - IS 12391 FENI 42 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 %	42.000 min.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 520 min. Yield Strength in Mpa 380 min. Elongation in % 30 min. Reduction of Area in % - Hardness in HV 125 - 170 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12391 FENI 48	IS	India	Casting
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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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS