

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		
Carbon	C %	0.050 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12391 FENI 42	IS	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India