

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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