

Material: IS 12390

Standard Specification for Iron-Nickel Alloy for Ceramic Sealing

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 12390 Iron-Nickel Alloy for Ceramic Sealing

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Wire, Round Bar and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.350 max.		
Chromium	Cr %	0.250 max.		
Phosphorus	P %	0.025 max.		
Cobalt	Co %	0.500 max.		
Aluminium	Al %	0.100 max.		
Sulphur	S %	0.025 max.		
Nickel	Ni %	36.000 min.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 490 min. Yield Strength in Mpa 380 min. Elongation in % 36 min. Reduction of Area in % - Hardness in HV 135 - 165 Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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