

Material: UNS K94490

Standard Specification for Nickel-Iron Soft Magnetic Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS K94490 Nickel-Iron Soft Magnetic Alloys

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

Grade Belongs to the Industry: Forging, Billet, Hot rolled plate, Strip, Bar and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.800 max.		
Chromium	Cr %	0.300 max.		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	0.300 max.		
Phosphorus	P %	0.030 max.		
Cobalt	Co %	0.500 max.		
Copper	Cu %	0.300 max.		
Nickel	Ni %	43.500 - 46.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 - 827
-	-	-	Yield Strength in Mpa	220 - 793
-	-	-	Elongation in %	2 - 38
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	74 - 82
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 753 Type 1	ASTM	USA	Forging, Billet, Hot rolled plate, Strip, Bar and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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