



## 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	<th colspan="2">Mechanical Properties</th>		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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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