

Material - ASTM A 753 Type 1

Standard Specification for Nickel-Iron Soft Magnetic Alloys

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 753 Type 1 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.		
Silicon	Si %	0.500 max.	As-Cast or Annealing or Age Hardning	
Manganese	Mn %	0.800 max.		
Chromium	Cr %	0.300 max.		or Age Hardning
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	0.300 max.		
Phosphorus	P %	0.030 max.		
Cobalt	Со %	0.500 max.		
Copper	Cu %	0.300 max.	Mechanical Properties	
Nickel	Ni %	43.500 - 46.500	Tensile Strength in Mpa	490 - 827
Iron	Fe %	Balance	Yield Strength in Mpa	220 - 793
-	-	-	Elongation in %	2 - 38
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in HR</mark> C	74 - 82
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
K94490	UNS	USA	Forging, Billet, Hot rolled plate, Strip, Bar and Wire	
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-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	
-	-	-	-	

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

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