GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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		
Carbon	C %	0.050 max.
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

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**
K94490	UNS	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