

## Material: ASTM A 753 Type 3

### Standard Specification for Nickel-Iron Soft Magnetic Alloys

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM A 753 Type 3 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 %	1.500 max.		
Chromium	Cr %	2.000 - 3.000		
Sulphur	S %	0.010 max.		
Molybdenum	Mo %	0.500 max.		
Phosphorus	P %	0.020 max.		
Cobalt	Co %	0.500 max.		
Copper	Cu %	4.000 - 6.000		
Nickel	Ni %	75.000 - 78.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	2 - 38
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	78 - 86
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
N14076	UNS	USA	Forging, Billet, Hot rolled plate, Strip, Bar and Wire
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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