

Material: UNS N14080

Standard Specification for Nickel-Iron Soft Magnetic Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N14080 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 %	3.500 - 6.000		
Phosphorus	P %	0.020 max.		
Cobalt	Co %	0.500 max.		
Copper	Cu %	0.300 max.		
Nickel	Ni %	79.000 - 82.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	580 - 1100
-	-	-	Yield Strength in Mpa	220 - 1030
-	-	-	Elongation in %	2 - 40
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRC	78 - 86
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 753 Type 4	ASTM	USA	Forging, Billet, Hot rolled plate, Strip, Bar and Wire
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