

Material: UNS N14076

Standard Specification for Nickel-Iron Soft Magnetic Alloys

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N14076 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 -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 753 Type 3	ASTM	USA	Forging, Billet, Hot rolled plate, Strip, Bar and Wire
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