

Material: UNS N09902

Standard Specification for Nickel-Iron Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N09902 Alloy Nickel-Iron Alloy Pipe, Tube, Sheet, Strip, Plate, Round Bar, Flat Bar, Forging Stock, Hexagon and Wire

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.000 max.		
Manganese	Mn %	0.800 max.		
Chromium	Cr %	4.900 - 5.750		
Sulphur	S %	0.040 max.		
Phosphorus	P %	0.040 max.		
Aluminium	Al %	0.300 - 0.800		
Titanium	Ti %	2.200 - 2.750		
Nickel	Ni %	41.000 - 43.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	586 - 1500
-	-	-	Yield Strength in Mpa	241 min.
-	-	-	Elongation in %	6.5 min.
-	-	-	Reduction of Area in %	50 min.
-	-	-	Hardness in HRC	26 - 40
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Ni-Span-C Alloy 902	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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