

Material: UNS N09979

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 N09979 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 %	0.080 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.750 max.		
Manganese	Mn %	0.750 max.		
Chromium	Cr %	14.000 - 16.000		
Molybdenum	Mo %	3.000 - 4.500		
Aluminium	Al %	0.750 - 1.300		
Boron	B %	0.008 - 0.016		
Titanium	Ti %	2.700 - 3.300		
Tungsten	W %	3.750 - 4.500		
Nickel	Ni %	42.000 - 48.000		
			Mechanical Properties	
Phosphorus	P %	0.015 max.	Tensile Strength in Mpa	1402.4 min.
Sulphur	S %	0.015 max.	Yield Strength in Mpa	1013.2 min.
Zirconium	Zr %	0.050 max.	Elongation in %	12.8 min.
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Udimet D-979	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
K66979	UNS	USA	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
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