

Material: UNS N09946

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

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N09946 Seamless Nickel and Nickel 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		
Carbon	C %	0.005 - 0.030
Silicon	Si %	0.500 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	19.500 - 22.500
Sulphur	S %	0.010 max.
Molybdenum	Mo %	3.000 - 4.000
Copper	Cu %	1.500 - 3.000
Aluminium	Al %	0.010 - 0.700
Phosphorus	P %	0.030 max.
Niobium	Nb %	3.500 - 4.500
Titanium	Ti %	0.500 - 2.500
Nickel	Ni %	50.000 - 55.000
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	1291 - 1310
Yield Strength in Mpa	1086 - 1135
Elongation in %	19.6 - 23.3
Reduction of Area in %	37.1 - 41.2
Hardness in HRC	37.1 - 41.2
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 945X	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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