

Material: UNS N19903

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 N19903 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		
Aluminium	Al %	0.300 - 1.150
Cobalt	Co %	13.000 - 17.000
Niobium	Nb %	2.400 - 3.500
Titanium	Ti %	1.000 - 1.250
Carbon	C %	0.030 max.
Boron	B %	0.012 max.
Chromium	Cr %	1.000 max.
Copper	Cu %	0.500 max.
Manganese	Mn %	1.000 max.
Sulphur	S %	0.015 max.
Silicon	Si %	0.600 - 1.000
Nickel	Ni %	36.000 - 40.000
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	1310 - 1456.6
Yield Strength in Mpa	1103 - 1193.8
Elongation in %	14 - 19.600
Reduction of Area in %	40 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Incoloy Alloy 903	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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