

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			Heat Treatment	
Aluminium	Al %	0.300 - 1.150	As-Cast or Annealing or Age Hardning	
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.		
			Mechanical Properties	
Silicon	Si %	0.600 - 1.000	Tensile Strength in Mpa	1310 - 1456.6
Nickel	Ni %	36.000 - 40.000	Yield Strength in Mpa	1103 - 1193.8
Iron	Fe %	Balance	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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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
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