Material: UNS N19909

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 N19909 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 %	0.150 max.
Cobalt	Co %	12.000 - 16.000
Niobium	Nb %	4.300 - 5.200
Titanium	Ti %	1.300 - 1.800
Carbon	C %	0.060 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 %	0.250 - 0.500
Phosphorus	P %	0.015 max.
Nickel	Ni %	35.000 - 40.000
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	1276 min.
Yield Strength in Mpa	1034 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
Incoloy Alloy 909	Gravity	India	Pipe, Tube, Sheet, Strip, Plate, Hexagon and Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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