Material: SAE Inconel X750

Standard Specification for Nickel Alloy, Corrosion and Heat-Resistant, Wire

Group: *Non-Ferrous Nickel Alloys*
Sub Group: *SAE Inconel X750 Nickel Alloy, Corrosion and Heat-Resistant, Wire*
Application: *Intended for Valve, Pump, General Engineering, Automotive and other Industries*
Grade Belongs to the Industry: *Wire*

Chemical Composition		
Carbon	C %	0.080 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	14.000 - 17.000
Aluminium	Al %	0.400 - 1.000
Copper	Cu %	0.500 max.
Cobalt	Co %	1.000 max.
Niobium	Nb %	0.700 - 1.200
Tantalum	Ta %	0.050 max.
Sulphur	S %	0.010 max.
Titanium	Ti %	2.250 - 2.750
Iron	Fe %	5.000 - 9.000
Nickel	Ni %	Balance
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	759 - 1897
Yield Strength in Mpa	345 - 1656
Elongation in %	2 - 45
Reduction of Area in %	8 - 60
Hardness in HRC	30 - 93
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
N07750	UNS	USA	Wire
SIMALLOY	SAE	USA	Wire
UNITEMP 750	SAE	USA	Wire
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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