

Material: UNS N07750

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

Group: Non-Ferrous Nickel Alloys

Sub Group: UNS N07750 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			Heat Treatment	
Carbon	C %	0.080 max.	As-Cast or Annealing or Age Hardning	
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.		
Niobium	Nb %	0.700 - 1.200		
Sulphur	S %	0.010 max.		
Titanium	Ti %	2.250 - 2.750		
Iron	Fe %	5.000 - 9.000		
Nickel	Ni %	Balance	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
Inconel X750	SAE	USA	Wire
SIMALLOY	SAE	USA	Wire
UNITEMP 750	SAE	USA	Wire
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-	-	-	-
-	-	-	-
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