

Standard Specification for Iron Nickel Cobalt Sealing Alloys

Sub Group: *UNS N94620 Iron Nickel Cobalt Sealing Alloys*

Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*

Grade Belongs to the Industry: *Wire, Rod, Sheet and Strips*

Chemical Composition			Heat Treatment	
Carbon	C %	0.020 max.	Solution Annealing	
Silicon	Si %	0.150 max.		
Manganese	Mn %	0.350 max.		
Phosphorus	P %	0.006 max.		
Sulphur	S %	0.006 max.		
Chromium	Cr %	0.030 max.		
Nickel	Ni %	29.000 max.		
Molybdenum	Mo %	0.060 max.		
Magnesium	Mg %	0.010 max.	Mechanical Properties	
Titanium	Ti %	0.010 max.	Tensile Strength in Mpa	-
Zirconium	Zr %	0.010 max.	Yield Strength in Mpa	-
Copper	Cu %	0.200 max.	Elongation in %	-
Copper	Cu %	0.200 max.	Reduction of Area in %	-
Aluminium	Al %	0.010 max.	Hardness in BHN	-
Iron	Fe %	Balance	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12549.0000	IS	India	Wire, Rod, Sheet and Strips
AMS 7726	SAE	USA	Wire, Rod, Sheet and Strips
AMS 7727	SAE	USA	Wire, Rod, Sheet and Strips
AMS 7728	SAE	USA	Wire, Rod, Sheet and Strips
K94610	UNS	USA	Wire, Rod, Sheet and Strips
K94630	UNS	USA	Wire, Rod, Sheet and Strips
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