

Material: SAE Kovar

Standard Specification for Iron Nickel Cobalt Sealing Alloys Castings

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Kovar Iron Nickel Cobalt Sealing Alloys Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.040 max.	As-Cast or Annealing or Age Hardning	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.500 max.		
Aluminium	Al %	0.100 max.		
Magnesium	Mg %	0.100 max.		
Zirconium	Zr %	0.100 max.		
Titanium	Ti %	0.100 max.		
Copper	Cu %	0.200 max.		
Chromium	Cr %	0.200 max.		
Molybdenum	Mo %	0.200 max.		
Cobalt	Co %	17.000 min.	Mechanical Properties	
Nickel	Ni %	29.000 min.	Tensile Strength in Mpa	520 - 860
Iron	Fe %	53.000 min.	Yield Strength in Mpa	400 min.
-	-	-	Elongation in %	27 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HV	149 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12549	IS	India	Casting
K94610	UNS	USA	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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Customer Care: +91-99090 45075 Email: info@icastllp.com