



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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 Tensile Strength in Mpa 520 - 860 Yield Strength in Mpa 400 min. Elongation in % 27 min. Reduction of Area in % - Hardness in HV 149 min. Impact in Joule -	
Nickel	Ni %	29.000 min.		
Iron	Fe %	53.000 min.		
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-	-	-		

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

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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