

Kovar alloy is a iron-nickel-cobalt, low expansion alloy whose chemical composition is controlled within narrow limits to assure precise uniform thermal expansion properties. Kovar alloy has been used for making hermetic seals with the harder Pyrex glasses and ceramic materials.

Kovar 4J29 Specification

Grade	ASTM	UNS	W.Nr
Kovar 4J29	F15	K94610	1.3981

Kovar 4J29 Chemical composition

Grade	%	Ni	Cr	Fe	Co	Cu	C	Mn	Si	P	S	Mo
Kovar 4J29	Min	28.5		Bal.	16.8							
	Max	29.5	0.2		17.8	0.20	0.03	0.50	0.30	0.02	0.02	0.20

Kovar 4J29 Coefficient of linear expansion

Grade	a/10 ⁻⁶ ·K ⁻¹		
Kovar 4J29	200-300°C	20-400°C	20-450°C
	/	4.6-5.2	5.1-5.5

Kovar 4J29 Size Range

- Wire: Dia 0.08-12mm
- Bar: Dia 1.0-300mm
- Strip(Coil): 0.2-20mm TCK x 10-300mm W
- Sheet: min.0.7mm TCK x 1200mm W max.
- Tube & Forging & Machine Parts: customized
- Welding wire: 0.8mm,1.0mm,1.2mm,2.0mm,2.4mm,3.2mm,3.8mm,4.0mm etc
- Welding Strip: 0.4-0.7mm TCK x 25-60mm W