

Kovar Material Composition

Reference: Flat KOVAR lids supplied by VC America

1. Series

LDK1612

LDK2016

LDK2520

LDK3225

LDK5032

LDK5070

LDK9014

2. Chemical Composition by percentage for Fe-Ni-Co KOVAR alloy

С	Si	Mn	Ni	Со	Fe
≤0.02	≤0.3	≤0.5	28-30	16-18	>52

3. Characteristics

a. Coefficient of thermal expansion

Specimens are taken from each molten lot and measured after heat treatment (annealing in H₂): 900°C for 1 hour, 1100°C for 15 minutes and cooled

Temperature °C		Average coefficient of thermal expansion x 10E-7 / K	
	30 to 400	45.5 – 50.8	
	30 to 450	50.3 - 53.7	

b. Mechanical Properties

Characteristic	Range	
Vicker Hardness HV	220-260	

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