

# Cheap Price ASTM F15 Kovar Alloy Feni29co17 4j29 Iron Nickel Cobalt Material Plate/Sheet

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Basic Information					
<ul> <li>Place of Origin:</li> </ul>	China				
<ul> <li>Brand Name:</li> </ul>	Victory				
Model Number:	4j29(kovar)				
Minimum Order Quantity:	50				

\$18-\$35

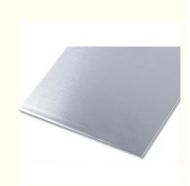
7-21 days

Wooden Case& carton

300 tons per month

L/C, T/T, Western Union, MoneyGram

- M
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:



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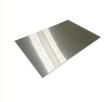
BIX

## **Product Specification**

Certificate:	ISO9001
<ul> <li>Shape:</li> </ul>	Sheet
• Ni (Min):	28.5
• Size:	Customized
Color:	Nickel,silver
<ul> <li>Ultimate Strength (≥ MPa):</li> </ul>	570
<ul> <li>Elongation (≥ %):</li> </ul>	30 %
<ul> <li>Application:</li> </ul>	Glass To Metal Sealing
Brand Name:	DLX
<ul> <li>Highlight:</li> </ul>	Kovar AlloyElectric Vacuum Kovar Alloy, Kovar Alloy 4J29, K94610 kovar sheet



#### More Images



### **Product Description**

Precision Alloy Kovar 4J29 plate/sheet

Precision Alloy Kovar alloy is a vacuum melted, iron-nickelcobalt alloy that is widely used in the electronics industry. Precision Alloy Kovar is a nickel-iron-cobalt, controlled-expansion alloy which contains 29% nickel. Precision Alloy its COEfficient of expansion, which decreases with rising temperature to the inflection point, matches the expansion rate of borosilicate glasses and alumina ceramics.

Precision Alloy Kovar alloy has been used for making hermetic seals with the harder Pyrex glasses and ceramic materials. This Precision alloy has found wide application in power tubes, microwave tubes, transistors, and diodes. In integrated circuits,  $\ensuremath{\textit{Precision}}$  Alloy has been used for the flat pack and the dual-in-line package.



Basic performance: Precision Alloy is divided into low-expansion alloy and fixed-expansion alloy, the latter is also known as sealing alloy. Precision Alloy Expansion alloy besides has the specific thermal expansion coefficient, according to the different USES also requires a good sealing property, weldability and corrosion resistance, machinability and cutting, and in the use of expansion characteristics caused by the temperature range there is no obvious change of phase transformation, Precision Alloy product is commonly bar, sheet, strip, wire and tube and so on.

Precision Alloy Expansion alloy applications: Precision Alloy is widely used in glass, metal and ceramic sealing in avionics and instruments, electric vacuum industry and other electronic devices, electric light source and other fields.

#### **Chemical Composition**

Grade	C%	P%	S%	Mn%	Si%	Cu%	Cr%	Mo%	Ni%	C
Kovar	Max 0.03	Max 0.020	Max 0.020	Max 0.50	Max 0.30	Max 0.20	Max 0.20	Max 0.20	28.5-29.5	16
pecific	ations									
Grade			UNS Werksto				Nr.			
Kovar			K94610	(94610 1.3981						
Grade Density Kovar 8.17 g/cm3					Melting Point 1449°C					
	is al Duranti		7 g/cms			1.	++5 0			
	ical Properti	ies	0	N/mm2		14	++9 0			
lechan	ical Properti	ies Te	ensile Strength	N/mm² /4 Hard	1/2	2 Hard		Hard	Full	Haro
		ies Te	ensile Strength				3/4	Hard 0-770	Full >70	

Allov	Linear Coefficient of Thermal Expansion a,10-6/°C							
люу	20-200°C	20-300°C	20-400°C	20-450°C	20-500°C	20-600°C	20-700°C	i.
Kovar	5.9	5.3	5.1	5.3	6.2	7.8	9.2	



