



Alloy 46

1. Brief introduction:

Alloy 46 is a Fe-Ni alloy that are intended primarily for sealing to glass in electronic applications.

2. Main specifications:

Chinese	UNS
alloy 46	K94600

3. Chemical composition under ASTM F30-96 standard:

Grade	chemical composition,%									
	C	P	S	Mn	Si	Al	Cr	Co	Ni	Fe
	MAX								nominal	
alloy 46	0.05	0.025	0.025	0.8	0.3	0.1	0.25	^B	46	Remainder

Cobalt is present as an incidental element and shall be reported separately.

Remarks: If require adjustments for some chemical compositions, pls consult with us.

4. Typical average linear expansion coefficient value $\alpha_{10-6}/^{\circ}\text{C}$:

Grade	30°C~300°C	30°C~400°C	30°C~500°C	30°C~600°C	30°C~700°C	30°C~800°C	30°C~900°C	30°C~1000°C
alloy 46	7.5	7.5	8.5	9.8	10.7	11.6	12.5	13.4



Shanghai Hite Special Alloy Co., Ltd.
<https://www.hitealloy.com>

5. Main product types:

wire,rod,strip, tube.

6. Alloy46 source URL:

<https://www.hitealloy.com/product/alloy-46.html>

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