



4J34

1. Brief introduction

4J33 is also an ceramic sealing alloy.

It has a linear expansion coefficient similar to that of 95% Al₂O₃ ceramic in -60°C to 600°C temperature range.

It is mainly used for matching sealing with ceramics and is an important sealing structure material in the electric vacuum industry.

2. Main specifications:

Chinese grade	Russia	Germany
4J34	31HK(Ni ₃₁ Co ₂₀)	Vacon20(Ni ₂₈ Co ₂₀)

Chemical composition under YB/T5231-2005 standard:

Grade	chemical composition,%										
	C	P	S	Mn	Si	Cu	Cr	Mo	Ni	Co	Fe
	MAX										
4J34	0.05	0.02	0.02	0.5	0.3	-	-	-	28.5~29.5	19.5~20.5	Remainder

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



3. Tensile strength under YB/T5231-2005 standard:

Delivery condition	Tensile strength of strip ,N/mm ²	Tensile strength of wire ,N/mm ²
Soft	<570	<585
Hard	>700	>860

4. Typical average linear expansion coefficient value α ,10-6/°C:

Grade	20°C~100°C	20°C~200°C	20°C~300°C	20°C~400°C	20°C~450°C	20°C~500°C	20°C~600°C	20°C~700°C	20°C~800°C
4J34	-	7.5	6.9	6.6	-	6.9	8.3	-	-

5. Main product types:

wire,rod, bar,strip, plate/sheet,tube, ring,forging.

6. 4J34 Source URL:

<https://www.hitealloy.com/product/4j34-116.html>