



4J40

1. Brief introduction:

4J40 belongs to Fe-Ni-Co ternary alloy, and the Curie point is 300 °C above.

It has low expansion coefficient in -20 °C to 300 °C temperature range, and does not undergo transformation of austenite (γ) \rightarrow martensite (M) up to -60 °C.

Mainly used to manufacture instrument parts and electronic components that require high precision in -50 °C to 300 °C.

2. Chemical composition under YB/T5241-2005 standard:

| Grade | chemical composition,% | | | | | | | |
|-------|------------------------|------|------|------|------|-----------|---------|-----------|
| | C | P | S | Si | Mn | Ni | Co | Fe |
| | MAX | | | | | | | |
| 4J40 | 0.05 | 0.02 | 0.02 | 0.15 | 0.25 | 32.4~33.4 | 7.0~8.0 | Remainder |

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

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

| Grade | 20 °C~50 °C | 20 °C~100 °C | 20 °C~200 °C | 20 °C~300 °C | 20 °C~400 °C | 20 °C~500 °C |
|-------|-------------|--------------|--------------|--------------|--------------|--------------|
| 4J40 | 1.4 | 1.3 | 1.2 | 1.7 | 4.5 | - |



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

4. Main product types:

wire,rod, bar,strip, tube.

5. Main specifications:

4J40, FeNiCo.

6. 4J40 Source URL:

<https://www.hitealloy.com/product/4j40.html>

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