



3J1

1. Brief introduction:

It's iron-nickel-chromium austenitic precipitation strengthened high elasticity alloy. After solution treatment, it has good plasticity and low hardness, so it's easy to process and mold. After solid solution or cold strain aging treatment, it gains high mechanical and elastic properties.

It is mainly used for manufacturing various aviation elastic sensitive elements and parts resistant to nitric acid or other corrosive media, such as bellows, diaphragms, bellows, transfer rods, baffles and other elastic structural members.

2. Chemical composition under YB/T5256-2011 standard:

Grade	chemical composition,%									
	C	P	S	Si	Mn	Cr	Ni	Ti	Al	Fe
	MAX									
3J1	0.05	0.02	0.02	0.8	1	11.5~13	34.5~36.5	2.7~3.2	1.0~1.8	Remainder

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

3. Norminal mechanical properties at room temperature:

Grade	Condition	Modulus of elasticity E/(N/mm ²)	Tensile strength Rm N/mm ²	Hardness Hv
3J1	cold worked+Aged	186500-206000	≥1200	400-480



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<https://www.hitealloy.com>

4. Main product types:

wire,rod, bar,strip.

5. Main specifications:

3J1, ЭИ702, 36HXTЮ, Ni36CrTiAl.

6. 3J1 Source URL:

<https://www.hitealloy.com/product/3j1.html>

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