



Hot Selling Permalloy Precision Alloy Wire Invar 36/1J79/1J85/1J87 Low Expansion Alloy Wire

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Victory
- Model Number: Permalloy 80
- Minimum Order Quantity: 50
- Price: \$25-\$40
- Packaging Details: Standard Export Wooden Cases Ex.Gross Weight Under 20kg=Carton Box/Gross Weight over 20 kg=Plywood Box Or as per Request
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 200 tons per month



Product Specification

- Material: NiFe
- Certificate: ISO9001
- Shape: Wire, Strip, Foil, Sheet
- Resistivity: 0.56
- Density: 8.75g/cm³
- Size: Customized
- Standard: GB/ASTM/AISI/ASME
- Condition: Bright, Annealed, Soft
- Application: Industrial Magnet
- Curie Point: 400°C
- HCR: 30
- Feature: High Initial Permeability
- Highlight: GB magnetic soft materials, magnetic soft materials Wire, ASME soft iron material



Product Description

High Permeability Soft Magnetic Alloy

Our Product Introduction

1) EI core, Magnetic head core, Magnetic shield case, Head case, Cassette tape magnetic shield plate, Parts for watch, Transducer, Car speedometer, Integrating watt hour meter, Magnetic sensor, Floppy disk drive, Car sensor, VTR, VTR camera, Diaphragm.

2) Permalloy is used in transformer laminations and magnetic recording head sensors. In its initial application, permalloy was wrapped around the insulated copper conductors of telecommunication cables, reducing signal distortion through improved inductive compensation of cable capacitive reactance.

3) It is widely used for fabricating the thin pieces that are laminated to form transformer cores. The proportion of nickel may range from 35 to 90 percent, depending on the properties desired, and is about 78 percent for low-power transformers.

4) Heating Permalloy containing 5 percent molybdenum in pure hydrogen yields SUPERMALLOY, with even higher permeability.

5) Supermalloy is an alloy composed of Ni (79%), Mo (5%), and Fe. It is a magnetically soft material. The resistivity of the alloy is 0.6 O-mm²/m.[1] It has an extremely high magnetic permeability and a low coercivity. Supermalloy is used in manufacturing of components of radio engineering, telephony, and telemechanics instruments.



Applications

High sensitivity and small power transformers, magnetic amplifiers, relays, chokes, magnetic heads for magnetic recording devices, magnetic shields, various tape wound cores, cut cores, and laminated cores used in weak magnetic fields.

Material	C	P	S	Mn	Si	Ni	Cr	Co	Mo	Cu
	Max									
Permalloy80	0.03	0.020	0.020	0.3-0.6	0.15-0.30	79.0-81.0	-	-	4.8-5.2	≤0.2

Material	Shape	Class	Thickness or Diameter mm	Magnetic permeability in 0.08A/m magnetic field intensity μ 0.4(mH/m)	Maximum permeability μ m(mH/m)	Coercivity(under saturation magnetic induction)Hc/A·m-1
				not less than		no greater than
Perm alloy80	Cold rolled strip	I	0.03-0.04	18000(22.5)	80000(100)	3.6
			0.05-0.09	28000(35)	110000(137.5)	2.4
			0.10-0.19	30000(37.5)	150000(187.5)	1.6
			0.20-0.34	40000(50)	180000(225)	1.2
			0.35-1.00	50000(62.5)	250000(312.5)	0.8
			1.10-2.50	40000(50)	150000(187.5)	1.2
		II	0.03-0.04	30000(37.5)	110000(137.5)	2.4
			0.05-0.09	40000(50)	140000(175)	1.6
			0.10-0.19	50000(62.5)	180000(225)	1.2
			0.20-0.34	60000(75)	200000(250)	1.0
			0.35	55040(68.8)	260000(325)	0.7
	Hot rolled tape		4.5-20	30000(37.5)	100000(125)	1.6
	Hot forged bar		20-100	30000(37.5)	100000(125)	1.6

Material	Shape	Class	Thickness or Diameter mm	Magnetic permeability in 0.08A/m magnetic field intensity μ 0.4(mH/m)	Maximum permeability μ m(mH/m)	Coercivity(under saturation magnetic induction)Hc/A·m-1	Saturation magnetic induction Bs/T
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				not less than		no greater than	
P e r m a l l o y 8 0	C o l l o i d e s t r i p	I	0.03- 0.04	18000(22.5)	80000(100)	3.6	0.70
			0.05- 0.09	28000(35)	110000(137.5)	2.4	0.70
			0.10- 0.19	30000(37.5)	150000(187.5)	1.6	0.70
			0.20- 0.34	40000(50)	180000(225)	1.2	0.70
			0.35- 1.00	50000(62.5)	250000(312.5)	0.8	0.70
			1.10- 2.50	40000(50)	150000(187.5)	1.2	0.70
		II	0.03- 0.04	30000(37.5)	110000(137.5)	2.4	0.70
			0.05- 0.09	40000(50)	140000(175)	1.6	0.70
			0.10- 0.19	50000(62.5)	180000(225)	1.2	0.70
			0.20- 0.34	60000(75)	200000(250)	1.0	0.70
			0.35	55040(68.8)	260000(325)	0.7	0.70
	H o t r o l l e d t a p e		4.5-20	30000(37.5)	100000(125)	1.6	0.70
	H o t f o r g e d b a r		20- 100	30000(37.5)	100000(125)	1.6	0.70



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