



Hot Sale Invar 36 Precision Alloy Wire 4j36 / Feni36 / 36 H

Our Product Introduction

for more products please visit us on victory-alloy.com

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: NiFe alloy precision, Permalloy 80 alloy precision GB, ASME permalloy 80



Product Description

High Permeability Soft Magnetic Alloy

Our Product Introduction

Permalloy 80 is a type of alloy that is composed of nickel, iron, and molybdenum. It is highly magnetic and is commonly used as a magnetic core material in electrical and electronic equipment. This alloy has approximately 80% nickel, 15% iron, and 5% molybdenum content. Compared to ordinary steel, commercial permalloy alloys have a relative permeability of around 100,000. This means that it provides maximum magnetic permeabilities and minimal core losses at low field strengths.



One of the advantages of permalloy 80 is its small size and weight. This makes it an ideal material for use in magnetic core and shielding applications where space is limited. Additionally, this vacuum-melted product has near-zero magnetostriction and significant anisotropic magnetoresistance.

Permalloy 80 offers high initial and maximum permeabilities with low coercive force, low hysteresis loss, low eddy-current losses, and low magnetostriction. These properties are critical for industrial applications, especially in thin films where variable stresses would otherwise cause a large destructive variation in magnetic properties. Overall, permalloy 80 is a versatile and reliable material that is widely used in the electrical and electronic industries. Its unique magnetic properties make it an essential component in many applications where precise control of magnetic fields is required.

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 $\mu\text{O.4(mH/m)}$	Maximum permeability $\mu\text{m(mH/m)}$	Coercivity(under saturation magnetic induction)Hc/A-m-1
				not less than		no greater than
Permalloy80	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
	Hot rolled tape	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 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 $\mu\text{O.4(mH/m)}$	Maximum permeability $\mu\text{m(mH/m)}$	Coercivity(under saturation magnetic induction)Hc/A-m-1	Saturation magnetic induction Bs/T
				not less than		no greater than	

P e r m a l l o y 8 0	C o l d r o l l e d s t r i p	I	0.03- 0.04	18000(22.5)	80000(10 0)	3.6	0.70
			0.05- 0.09	28000(35)	110000(1 37.5)	2.4	0.70
			0.10- 0.19	30000(37.5)	150000(1 87.5)	1.6	0.70
			0.20- 0.34	40000(50)	180000(2 25)	1.2	0.70
			0.35- 1.00	50000(62.5)	250000(3 12.5)	0.8	0.70
			1.10- 2.50	40000(50)	150000(1 87.5)	1.2	0.70
		II	0.03- 0.04	30000(37.5)	110000(1 37.5)	2.4	0.70
			0.05- 0.09	40000(50)	140000(1 75)	1.6	0.70
			0.10- 0.19	50000(62.5)	180000(2 25)	1.2	0.70
			0.20- 0.34	60000(75)	200000(2 50)	1.0	0.70
			0.35	55040(68.8)	260000(3 25)	0.7	0.70
	H o t r o l l e d t a p e		4.5-20	30000(37.5)	100000(1 25)	1.6	0.70
	H o t f o r g e d b a r		20-100	30000(37.5)	100000(1 25)	1.6	0.70



Changzhou Victory Technology Co., Ltd



+8619906119641



victory@dlx-alloy.com



victory-alloy.com

NO.32 West Taihu Road, Xinbei District, Changzhou, Jiangsu