



Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Xianheng
- Certification: ISO 9001:2015 SGS RoHS
- Model Number: RF-XG-42
- Minimum Order Quantity: 1 pcs
- Price: USD 0.01\$-0.5\$
- Packaging Details: Carton Wooden case
- Delivery Time: 5-8 days
- Payment Terms: T/T, Western Union, MoneyGram
- Supply Ability: 10000 SET per week



Product Specification

- Products: SMD EMI PCB RF Shield Cover, stamping Contacts, Metal Parts
- Process: Metal Sheets Fabrication, Welding Cutting Punching Stamping
- Application: SMD EMI PCB RF Shield Cover, Mobile PCB Cover
- Tolerance: +/-0.02mm
- Equipment: Precision Stamping Parts
- Material: Tin Plate Copper-Nickel-Zinc Alloy
- Function: Shielding Cover
- Used: PCB Board, mobile Phones Cover, Computers, GPS, Watches, Digital Products And Other Electronic Products, Prevent Electromagnetic Interference (EMI), On PCB Components And LCM Shield
- Surface Finishing: Normal, tin Plating, nickel Plating
- Package: Plastic Bag, Blister Box, Tap Reel Or As Your Required



More Images



What We Can Provide

Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference**Description Of Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference**

Nickel silver alloy RF shielding stands as the pinnacle of electromagnetic interference (EMI) mitigation for high-frequency applications. Engineered with precision, this advanced shielding solution combines the exceptional electrical conductivity of nickel silver—a copper-nickel-zinc alloy—with tailored manufacturing processes to deliver unmatched performance across GHz-range frequencies. Ideal for aerospace, telecommunications, medical devices, and 5G infrastructure, it addresses the growing demand for reliable, durable, and cost-effective EMI protection in compact, high-complexity systems.

Material Of Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference**Material and Testing Report**

Metal	Aluminum	Aluminum 2024 Aluminum 5052 Aluminum 6061-T6 Aluminum 6063 Aluminum 7075 Aluminum MIC 6
	Stainless steel	SUS303, SUS304, SS316, SS316L
		UNS S32304 UNS S32003 UNS S31803 UNS S32205
		UNS S32760 UNS S32750 UNS S32550 UNS S32707 UNS S33207
	Steel	12L14 4140 1018 1045 12L14 4130 4142 ,O1 tool steel,
		D2 tool steel,A36 1008 ,Alloy42
	Titanium	Grades 1-4 Grade 5 Grade 9
	Brass	260, C360, H59, H60, H62, H63, H65, H68, H70
	Copper	
	Phosphor bronze	
	Bronze	C932
	Carbon fiber	
	PTFE	Polytetrafluoroethylene (PTFE)
Plastic	Acetal	(Polyoxymethylene (POM)) [Delrin]
	PEEK	Polycarbonate
	Polystyrene	Polyether Ketone
	Nylon	
	ABS	
	PVC	
	Acrylic	
	G-10 Garolite	
	Fiberglass	

Finish Result

As Machined	Sharp edge and burrs will be removed
Bead Blast	The part surface is left with a smooth, matte appearance
Anodized	Type II creates a corrosion-resistant finish. Parts can be anodized in different colors—clear, black, red, and gold are most common—and is usually associated with aluminum.
	Type III is thicker and creates a wear-resistant layer in addition to the corrosion resistance seen with Type II.
Powder Coat	This is a process where powdered paint is sprayed onto a part which is then baked in an oven.
	This creates a strong, wear- and corrosion-resistant layer that is more durable than standard painting methods. A wide variety of colors are available to create the desired aesthetic.
Customized	Contact us via email, skype, whatsapp. We will look into a finishing process for you.

Others

Tolerance	+/-0.005mm
Lead Time	1-2 weeks for samples, 3-4 weeks for mass production
Drawing Accepted	Solid Works, Pro/Engineer, AutoCAD(DXF, DWG), PDF
Payment Terms	TT/Paypal/WestUnion

Industries Of Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference

1. Aircraft parts
2. Automobile parts
3. Fixture parts
4. Medical parts
5. Petro chemical parts
6. Education parts

Features Of Nickel Silver Alloy RF Shielding Supplier The Ultimate Solution for High-Frequency Electromagnetic Interference

1. High precision
2. Short processing time
3. Easier customized/personalized

Why Choose Us

Our Advantages

Superior Shielding Efficacy (30dB–90dB+ Across GHz Frequencies)

Nickel silver's high conductivity (low skin-depth resistance) ensures robust attenuation of electromagnetic waves, minimizing signal leakage and cross-talk in sensitive circuits. Its performance surpasses traditional tin/copper alternatives, especially in high-frequency bands (1–100+ GHz) critical for 5G, radar, and satellite systems.

Corrosion Resistance & Long-Term Durability

The alloy's inherent resistance to oxidation, humidity, and chemical exposure makes it ideal for harsh environments—from industrial machinery to outdoor telecommunications towers. Unlike plated coatings, nickel silver's homogenous structure prevents delamination, ensuring decades of stable shielding performance without maintenance.

Thin-Film Flexibility & Formability

Through advanced electroforming, chemical etching, or additive manufacturing, nickel silver shields can be produced in ultra-thin profiles (down to 0.005 inches) while maintaining structural integrity. This enables integration into space-constrained devices like smartphones, IoT sensors, and wearable medical monitors without compromising mechanical resilience or electrical performance.

Sustainable & Recyclable Material Design

Nickel silver is 100% recyclable, aligning with global e-waste reduction goals. Suppliers prioritize eco-friendly production methods—such as closed-loop recycling of scrap alloy and water-based plating processes—to minimize environmental impact. This makes it a preferred choice for green electronics and circular economy initiatives, reducing lifecycle costs for manufacturers.

Techniques Available

• SLA

• SLS

• MJF

• SLM



Q1: Where can I get product & price information?

A1: Send us inquiry e-mail, we will contact you as we receive your mail.

Q2: How long can I get the sample?

A2: Depends on your specific items, within 3-7 days is required generally.

Q3: What kinds of information you need for quote?

A3: Kindly please provide the product drawing in PDF, and will be better you can provide in STEP or IGS.

Q4: What are the payment terms?

A4: We accept 50% as payment deposit, when the goods is done, we take photos for your check and you then pay the balance.

Q5: Are you a trading company or factory?

A5: We are direct factory with 10 experienced engineers and more than 650 employees as well approximate 2,000 square ft. workshop area.

Q6: What shall we do if we do not have drawings?

A6: Please send your sample to our factory, then we can copy or provide you better solutions. Please send us pictures or drafts with dimensions (Length, Height, Width), CAD or 3D file will be made for you if placed order.



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