



AgCu20 Robot Motor Industry High Precision Electronic Military Equipment Industry

Our Product Introduction

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

Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE, ROHS
- Model Number: AgCu20



Product Specification

- Strip Width: Custom
- Purity: PtRh10/15/20/25/30/40
- Surface: Bright, Oxided, Acide
- Length: 1mm And Customized
- Diameter: 0.032 Inch
- Strength: High
- Density: High
- Finish: Bright
- Key Word: Platinum Rhodium Tube
- Resistivity: 1.12+/-0.05
- Elongation: ≥20%
- Durability: Long-lasting
- Appearance: Shiny
- Chemical Composition: ≥ 99%
- Malleability: High



More Images



Product Description



AgCu20 Alloy Wire is a high performance metal alloy consisting of 80% silver and 20% copper. The alloy is known for its excellent electrical and thermal conductivity and corrosion resistance, as well as its high strength and ductility, and is widely used in demanding electronic and electrical equipment.

Main Parameters

Composition: 80% Silver (Ag), 20% Copper (Cu)
Density: 10.5 g/cm³
Conductivity: approx. 62% IACS (International Annealed Copper Standard)
Melting point: 890°C
Hardness: 90-120 HV (Vickers)
Tensile strength: 450-550 MPa
Ductility: excellent
Corrosion resistance: high

Product properties

High electrical conductivity: Due to the high percentage of silver, AgCu20 alloy wires have excellent electrical conductivity and are suitable for high frequency current transmission.

High thermal conductivity: The thermal conductivity of silver makes this alloy excellent for applications requiring rapid heat dissipation.

Excellent corrosion resistance: The alloy remains stable in wet and corrosive environments.

Mechanical strength and ductility: The alloy combines good mechanical strength and ductility with ease of processing and forming.

Applications in drone motors

Drone motors require high performance, high reliability and light weight. agCu20 alloy wire is ideal for drone motor coils and wiring due to its excellent electrical and mechanical properties.

High electrical conductivity: It can effectively reduce the electrical resistance, improve the efficiency of the motor, and extend the endurance of the drone.

High Thermal Conductivity: Helps the motor dissipate heat quickly, preventing overheating and ensuring stable operation of the motor for a long time under high load.

Lightweight: Higher strength reduces the total weight of the motor while maintaining performance, increasing the load capacity and flight time of the drone.

Reliability and Durability: Excellent corrosion resistance ensures long term stable operation of the UAV in a variety of complex environments.

Military Applications

Military Electronic Equipment

AgCu20 alloy wires are widely used in military electronic equipment, including radar systems, communication equipment and electronic countermeasures equipment. These devices require high reliability and stability, and AgCu20 alloy wires are able to meet these demanding requirements due to their high electrical conductivity and corrosion resistance.

High Frequency Communication

Due to its excellent electrical and thermal conductivity, AgCu20 alloy wires play an important role in high-frequency communication equipment, ensuring the stability and efficiency of signal transmission and enhancing the performance and safety of military communication systems.

Wires and Connectors

Wires and connectors in military equipment need to maintain reliable electrical connections in harsh environments, and AgCu20 alloy wires are ideal for military wires and connectors because of their excellent electrical conductivity and their ability to remain stable in harsh conditions such as high temperatures and humidity.

Aerospace

In the aerospace industry, where lightweight and high performance of electrical and electronic equipment is critical, AgCu20

alloy wires are widely used in military drones, missile control systems, and satellite communications equipment to enhance overall system performance and reliability due to their lightweight and high strength.

Conclusion

80 AgCu20 copper alloy wires demonstrate a wide range of potential applications in UAV motors and military industries due to their excellent electrical and mechanical properties. Its high electrical and thermal conductivity, excellent corrosion resistance and good mechanical strength make it ideal for these demanding applications.

Product Comparison

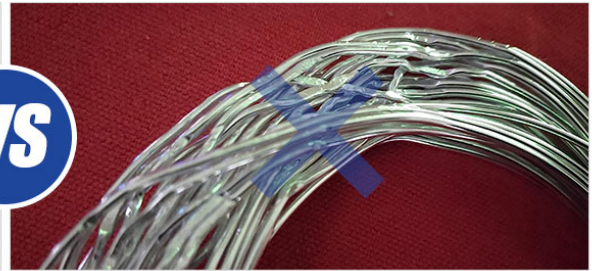
The quality of our products has been strictly tested and guaranteed



OTHERS



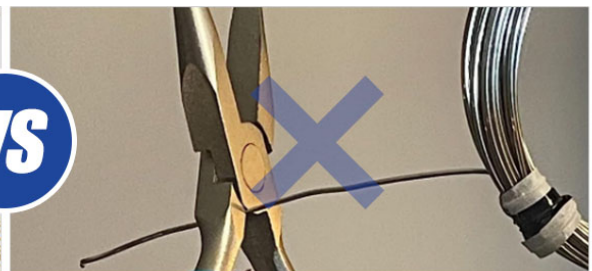
Smooth Edges



Uneven Edges



Product Quality Strict Inspection



Product Quality Is Not Up To Standard

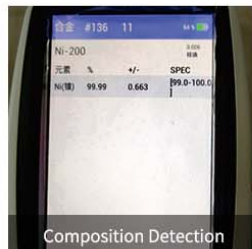
Application Field

Silver copper alloy wires are widely used in many fields



Product Testing Equipment

The quality of our products has been strictly tested and guaranteed



Composition Detection



Composition Detection



Measuring Instrument



Micro Hardness Tester



Micro Hardness Tester



Tensile Test Equipment



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