



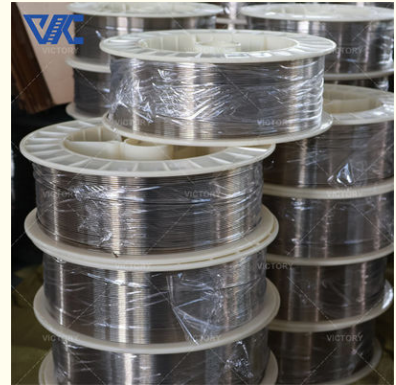
Ni95Al5 Tafa 75B Metco Nickel Aluminum Thermal Spray Coating Wire

Our Product Introduction

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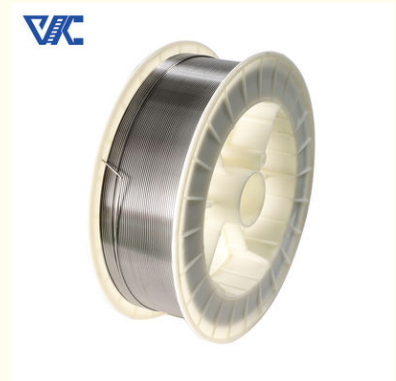
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: Ni95Al5
- Minimum Order Quantity: 5 Kg
- Price: Negotiable
- Packaging Details: Spool package with Carton box, Coil package with polybag
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month

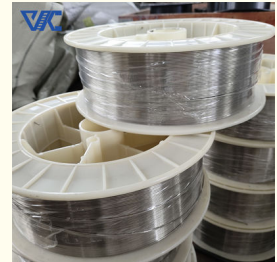
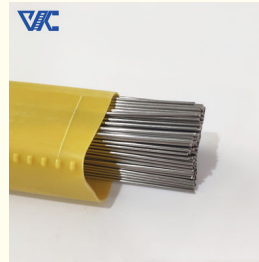


Product Specification

- Product Name: Thermal Spray Wire
- Grade: Ni95Al5
- Material: Ni+Al
- Application: Vacuum Coating
- Coating Hardness: HRB 75
- Bonding Strength: 68.95 N/mm²
- Size: 0.8mm 1.2mm 1.6mm 2.4mm 3.2mm
- Name: PMET 885/Ni95Al5/Tafa 75B/ MEC 885
- Density: 7.8g/cm³
- Melting Point: 1390 °C
- Highlight: Inconel 625 Thermal Spray Wire, Aerospace Industries Thermal Spray Wire, 3.2mm Nickel Base Alloy Wire



More Images



Product Description

Introduction

When it comes to vacuum coating applications, Ni95Al5 spray wire is a high-quality thermal spray wire mainly composed of Ni+Al material composed of high-purity nickel and aluminum. It is widely used in aerospace, energy and chemical industries to meet the protection and protection needs in high temperature environments.

The coating hardness of Ni95Al5 spray wire reaches HRB 75, indicating that it has excellent wear resistance and impact resistance and can effectively resist external physical damage. In addition, it also has excellent bonding strength, reaching 68.95 N/mm2, ensuring a strong bond between the coating and the substrate and providing a long service life.

The spray wire is available in multiple size options, including 0.8mm, 1.2mm, 1.6mm, 2.4mm and 3.2mm, to meet the needs of different applications. Its density is 7.8g/cm3, and the moderate material density helps achieve uniform coating coverage and good thermal conductivity.

In high temperature environments, Ni95Al5 spray wire exhibits excellent performance. It has a low thermal expansion coefficient, which can reduce the thermal stress between the coating and the substrate and improve the coating's heat resistance and thermal fatigue resistance. In addition, Ni95Al5 spray wire also has good corrosion resistance and can resist the erosion of corrosive media such as oxidation, sulfidation and chlorination.

Thermal spray wire

Item	Inconel 625	Ni95Al5	45CT	Monel 400	HC-276	Cr20Ni80	K500
C	≤0.05	≤0.02	0.01-0.1	≤0.04	≤0.02	≤0.08	≤0.25
Mn	≤0.4	≤0.2	≤0.2	2.5-3.5	≤1.0	≤0.06	≤1.5
P	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.02	≤0.01
S	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01	≤0.01
Si	≤0.15	≤0.2	≤0.2	≤0.15	≤0.08	0.75-1.6	≤0.5
Cr	21.5-23	≤0.2	42-46	-	14.5-16	20-23	-
Ni	Rest	Rest	Rest	65-67	Rest	Rest	Rest
Cu	-	-	-	Rest	-	-	27-33
Mo	8.5-10	-	-	-	15-17	-	-
Ti	≤0.4	0.4-1	0.3-1.0	2.0-3.0	-	-	0.35-0.85
Al	≤0.4	4-5	-	≤0.5	-	-	2.3-3.15
Fe	≤1.0	-	≤0.5	≤1.0	4.0-7.0	-	≤1.0
Nb	3.5-4.15	-	-	-	-	≤1.0	-
Co	-	-	-	-	-	-	-
V	-	-	-	-	≤0.35	-	-
W	-	-	-	-	3.0-4.5	-	-
Impurities	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50	≤0.50

Feature

High temperature performance: Ni95Al5 alloy has excellent high temperature oxidation and corrosion resistance. It maintains stable performance in high temperature environments and resists oxidation and hot corrosion.

Strong adhesion: Ni95Al5 alloy has good adhesion to the base material, can form a strong coating, and provides excellent adhesion.

Lightweight and high strength: Ni95Al5 alloy is relatively light and has high specific strength, making it suitable for applications requiring lightweight structures.

Application

Aerospace: Ni95Al5 spray wire is widely used in the aerospace field, especially for coating of high-temperature components, such as turbine blades, combustion chambers, nozzles, etc. They provide excellent high-temperature oxidation and corrosion protection, enhancing component performance and life.

Energy field: Ni95Al5 spray wire is also widely used in the energy field, such as coatings for gas turbines, burners, boilers and other equipment. They provide protection against high-temperature oxidation and corrosion, improving equipment efficiency and reliability.

Automotive industry: Ni95Al5 spray wire can also be used in the automotive industry, such as for coatings on automobile exhaust systems. They provide high temperature and corrosion resistance, improving exhaust system durability and performance.

Size range

Wire: 0.8mm 1.2mm 1.6mm 2.4mm 3.2mm.

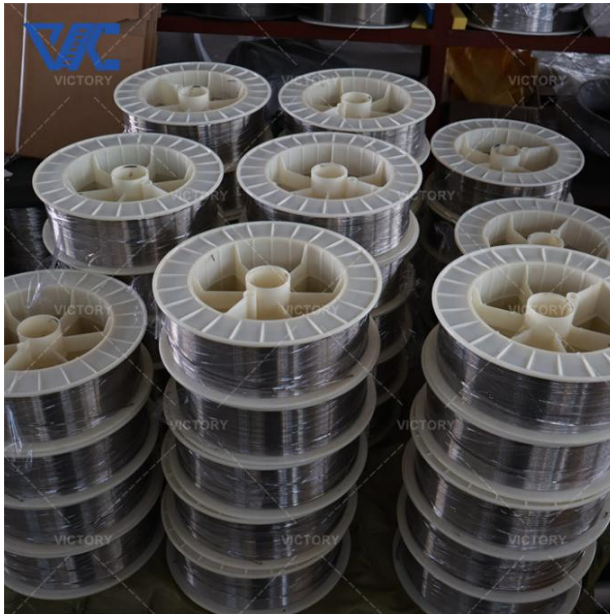
Package

Products are generally supplied in standard cardboard boxes, pallets, wooden boxes. Special packaging requirements can also be accommodated. (also depend on the customers' requirements)

For the Thermal spray wires, we wind small size wire less than 1.6mm wires on spools. Bigger size over than 2.4mm in coils. Then put spools into cartons, Then put the cartons onto pallet or wood box.

Our Services

- 1) Free sample could be supplied for testing purpose.
- 2) Customized lable, packing, OEM service.
- 3) Mill test certificate will be provided after production.
- 4) Good packing methods to keep goods statable.



Q&A

What are the advantages of Ni95Al5 spray wire?

Ni95Al5 spray wire has excellent high-temperature oxidation and corrosion resistance, strong adhesion, light weight and high specific strength.

What is the difference between Ni95Al5 spray wire and other spray materials?

Compared with other spray materials, Ni95Al5 spray wire has higher high temperature oxidation resistance and better corrosion resistance, and is suitable for parts requiring high temperature protection.

What is the spraying process of Ni95Al5 spray wire?

Ni95Al5 spray wire is usually sprayed using thermal spraying technology, such as high-velocity flame spraying, plasma spraying or HVOF (high-velocity flame spraying). These techniques ensure good bonding of the spray filament to the base material and a strong coating.



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