



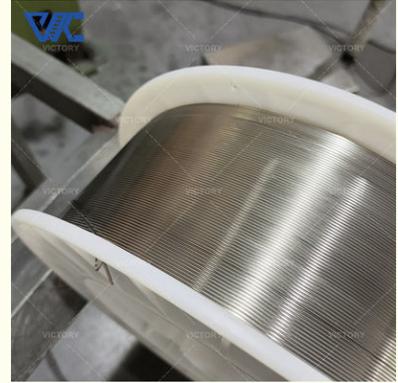
45CT NiCrTi Arc Thermal Spray Wire Metco 8500 Nickel Alloy Wire

Our Product Introduction

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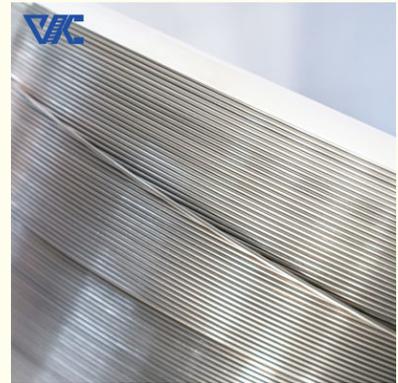
Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE,ROHS,ISO 9001
- Model Number: 45CT
- 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

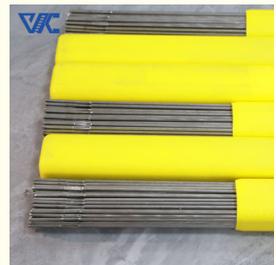
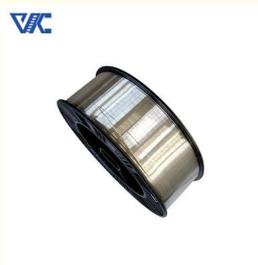


Product Specification

- Product Name: Thermal Spray Wire
- Grade: 45CT
- Material: Tungsten
- Bonding Strength: 48.26 N/mm²
- Deposit Rate: 10 Lbs/hr/100A
- Coating Hardness: HRC 30-35
- Highlight: **Bright Surface Nickel Spray Wire, Nickel Spray Wire Acr, 45CT Thermal Spray Wire**



More Images



Product Description

Introduction:

NiCrTi/45CT wire is a Nickel/Chrome/Titanium wire developed specifically for boiler applications. This second generation material replaces 06BXP and produces coatings which are extremely resistant to corrosive vanadium and sulfur gases in boiler atmospheres.

Typical Uses and Applications:

This material has proven very effective in providing long term protection to boiler tubes against high temperature sulfidation. The wrought material is highly resistant to sulfur/vanadium atmospheres up to 1800°F. Wrought material of this type has shown a 2 mil per year corrosion rate over a nine year period when used in the super heater section of boilers. Coatings of 45CT wire applied to boiler tubes have shown virtually no loss of thickness or spalling after 24 months of service (as of this writing).

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:

Strength and Hardness: 45CT thermal spray wire has high strength and hardness, making it suitable for applications requiring wear and impact resistance.

Corrosion Resistance: Although 45CT is a carbon steel, it may contain some alloying elements to improve its corrosion resistance. Specific corrosion resistance depends on the specific alloy composition and environmental conditions.

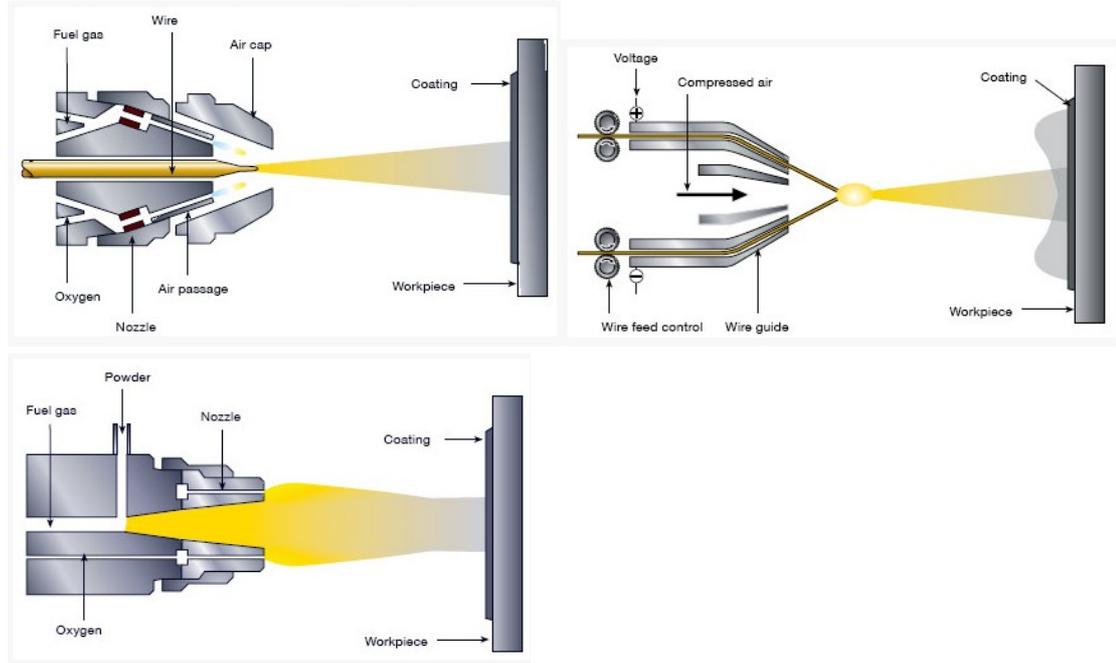
Processability: 45CT thermal spray wire is easy to process and form, and can be cut, bent and shaped according to specific needs.

Application:

Mining and quarrying industry: 45CT thermal spray wire is commonly used for coating equipment and parts in the mining and quarrying industry. They provide protection against wear and corrosion, extending the life of your equipment.

Water treatment and sewage treatment: Due to the corrosion resistance of 45CT, it can be used for spray coating of water treatment and sewage treatment equipment, such as pipes, valves, pumps, etc.

Metallurgy and steel industry: 45CT thermal spray wire is also used in the metallurgy and steel industry. They can be used to coat equipment and components in high temperature and corrosive environments to provide protection and extend service life.



Size range Wire: 0.12 to 8.0 mm.



Q&A:

What are the main advantages of 45CT thermal spray wire?

The main advantages of 45CT thermal spray wire include higher strength and hardness, wear resistance, and corrosion resistance (depending on the specific alloy composition).

What is the difference between 45CT thermal spray wire and other spray materials?

Compared with other spray materials, 45CT thermal spray wire is a type of carbon steel with good strength and wear resistance, and is suitable for some applications requiring strength and hardness.

What is the spraying process of 45CT thermal spray wire?

45CT thermal spray wire usually uses gas thermal spray technology, such as flame spraying or plasma spraying. These technologies spray a thermal spray filament onto a base material to form a coating.



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