



Scan QR code for
more product
information

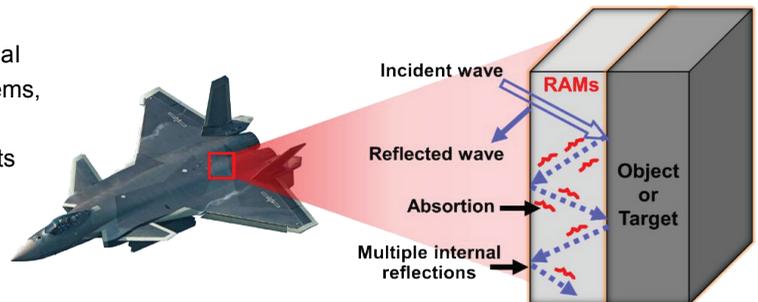
Antiradar Coating material(915-5)

Application scenarios and industry pain points

#Keywords in this paragraph# Ship, radar waves absorb, offshore wind power, electronic equipment, Electromagnetic radiation, Environmental adaptability, Insufficient durability, Low VOCs Environmental protection standards, Wave absorption, Stealth, X-band, Ku-band, Heavy anti-corrosion, Easy to fall off High maintenance cost

Absorbent coatings are widely used in many fields, such as military (absorbing radar waves for stealth aircraft, ships, etc.), offshore wind turbine towers, electronic equipment (reducing electromagnetic interference from mobile phones, computers, etc.), household appliances (reducing electromagnetic radiation from microwave ovens, refrigerators, etc.), audio equipment (improving sound quality for audio equipment, recording studios, etc.), automotive interiors (reducing electromagnetic interference and noise), and home environments (reducing electromagnetic radiation and sound reflection).

The main pain points faced by the industry include: high-performance coatings have high price, poor environmental adaptability, insufficient durability, complex construction, need for professional technology and equipment, easy quality problems, non-compliance with environmental standards such as low VOCs, and high maintenance costs due to easy damage



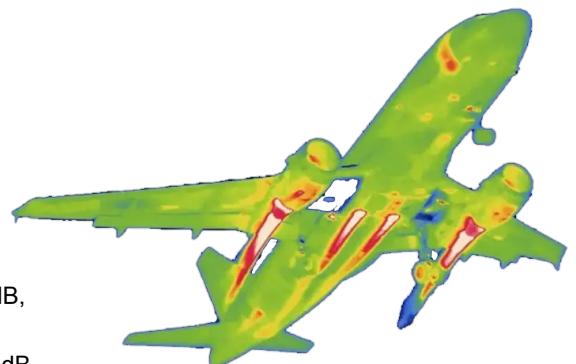
Product Introduction

#Keywords in this paragraph# electromagnetic wave absorption, heat energy conversion, stealth effect, shielding effect, radar cross-sectional area reduction, complex electromagnetic environment, all-round electromagnetic protection, stealth solution

Tianyang absorbing paint is a special paint that can effectively absorb electromagnetic waves and convert them into heat energy. It has excellent electromagnetic wave absorption performance and can effectively reduce the radar reflection cross-sectional area of the target object, so that it has excellent stealth and shielding effects in complex electromagnetic environments, providing a full range of electromagnetic protection and stealth solutions for your equipment and environment.

Performance characteristics, key data and test reports

- Salt spray test performance over 3000 hours
- Resistance to strong acid, alkali and salt
- Excellent wear resistance
- Can meet the absorption performance requirements of X-band (8.2-12.4 GHz) and Ku-band(12.4-18 GHz) under both reconnaissance conditions at the same time, and the wave absorption rate is >99.99%
- In the X-band, the minimum reflection loss value reaches 59.69dB, and the effective absorption frequency range is 9.66-11.24GHz;
- In the Ku band, the minimum reflection loss value reaches 54.14dB, and the effective absorption frequency range of 15.76-18 GHz;



Economic Benefits

Extend equipment life

Due to its excellent corrosion resistance (salt spray test performance of more than 3,000 hours, resistance to strong acids, alkalis and salts), the coating can significantly extend the service life of military equipment, radar facilities and other structures exposed to harsh environments and reduce maintenance costs.

Improve combat effectiveness

For military applications, this coating can provide efficient electromagnetic wave absorption capabilities in the X-band and Ku-band (reflection loss values reach -59.69dB and -54.14dB respectively), effectively reducing the probability of being detected by enemy radar and enhancing stealth performance. This not only improves the survivability and mission success rate of a single platform, but may also affect victory or defeat at the strategic level.

Reduce operating costs

Because of its good wear resistance, the frequency of re-coating due to wear is reduced, and the material consumption and labor costs in long-term operation are reduced.

Promote technological innovation

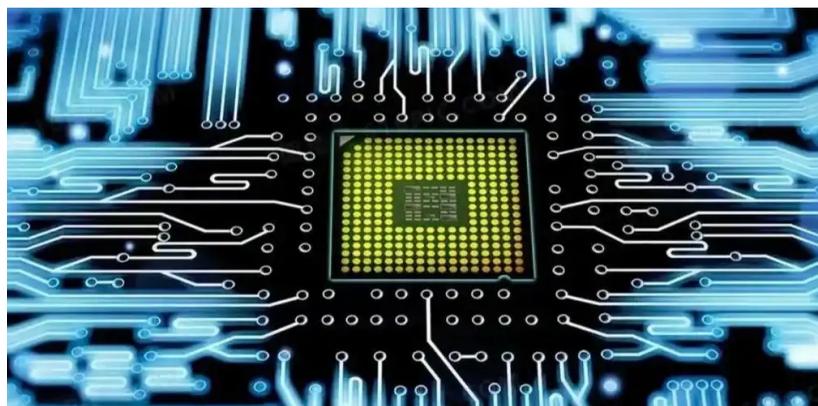
The research and development and application of this high-performance absorbing material will promote technological progress in related fields, such as the development of stealth technology, thereby driving the progress of the entire defense industry chain and may give rise to new market opportunities and technological derivatives.

Increase export competitiveness

If this type of coating can be commercially produced and widely used, it will add an important selling point to the country's military products, have a stronger competitive advantage in the international market, and help expand the export share of weapon systems.

Environmental benefits

In the long run, by reducing the need for frequent maintenance and replacement, waste generation is indirectly reduced, which also contributes to environmental protection. At the same time, high-efficiency absorbing materials can help design more compact radar systems and other electronic equipment, saving space resources.



Application performance

It is recommended that we make an appointment for an online video conference or offline face-to-face communication. We will bring you the latest, most complete and more detailed information.

Contact: Engineer Yu Lili 18019287140

Zip code: 201407

Email: lily@ty-tt.com

Address: No. 4638, Jinqian Road, Fengxian District, Shanghai

National-level specialized and innovative "little giant" enterprise
National high-tech enterprise
National key new product (special for high-speed rail)
National special equipment manufacturing license (pressure pipeline A2 grade)
Eight quality management and quality assurance systems

First Prize of Science and Technology Progress
Award of China Corrosion Protection Society
Shanghai Academician Expert Workstation
Shanghai Craftsmen
Shanghai Quality Gold Award
PetroChina network supplier (No.: 1761144)
Sinopec E-Pac Credit Rating: A+