Purity 999 Silicon Dioxide Nanoparticles Cas No 7631 86 9 High Stability Material for Electronics Coatings and Composites

Our Product Introduction

Basic Information

Product Specification

- Appearance: White Or Colorless Powder
- Transport Package: Kraft Bag With Pallet Or Carton
- Boilingpoint: 2230 °C
- Einecs: 238-455-4
- Origin: Anhui, Huainan
- Specification: 10kg
- State: Powder
- Volatile: Not Volatile
- Highlight: **999 silicon dioxide nanoparticles**, **high stability silicon dioxide material**, **electronics coatings silicon dioxide**

Product Description

Product Description:

High Purity Silicon Dioxide is an essential material widely used across various industries due to its exceptional properties and versatility. Known chemically as SiO2, this compound is commonly found in nature as quartz and in various living organisms. Our High Purity Silicon Dioxide is supplied in powder form, making it highly convenient for numerous applications that require precise material handling and integration.

The Silicon Dioxide Powder we offer boasts a high boiling point of 2230 °C, which underlines its excellent thermal stability. This characteristic makes it suitable for processes and products that must withstand extreme temperatures without degradation or loss of structural integrity. The powder form enhances its usability in manufacturing processes such as ceramics, glass production, and electronics, where uniform particle distribution and purity are critical.

With the CAS number 7631-86-9 and EINECS number 238-455-4, this High Purity Silicon Dioxide meets stringent quality and regulatory standards, ensuring consistent composition and performance. The CAS number, a unique numerical identifier assigned to chemicals, guarantees that you are sourcing a product that complies with international chemical inventory listings. This traceability is vital for industries requiring reliable raw materials for research, development, and production.

The high purity of our Silicon Dioxide Powder makes it ideal for applications in semiconductor manufacturing, where impurities can significantly affect the performance and reliability of electronic components. Furthermore, it is extensively used as a filler material in plastics and rubber, enhancing mechanical strength and thermal stability without compromising the material's original properties.

In addition to its industrial uses, High Purity Silicon Dioxide plays a crucial role in the pharmaceutical and cosmetic industries. Its inert nature and fine particle size make it suitable for use as an anti-caking agent, a thickening agent, and a carrier for active ingredients in formulations. The powder form allows for easy dispersion and integration into various product matrices, ensuring uniformity and consistency in the final products.

Environmental applications also benefit from this Silicon Dioxide Powder. Due to its chemical stability and resistance to weathering, it is used in water treatment processes and as a component in environmentally friendly construction materials. Its role in enhancing durability and resistance to chemical attack contributes to sustainable product development.

The physical state of this product as a powder allows for flexible handling and storage options. It can be easily transported and incorporated into manufacturing workflows, facilitating smooth production processes. The high purity aspect ensures minimal contamination risks, which is particularly important when the product is used in high-tech and sensitive applications.

Overall, our High Purity Silicon Dioxide Powder is a reliable and versatile material tailored to meet the demands of modern industry. Its superior thermal properties, chemical stability, and compliance with regulatory standards make it an indispensable component in a broad spectrum of applications, from electronics and pharmaceuticals to construction and environmental technologies.

Choosing our High Purity Silicon Dioxide means opting for quality, consistency, and performance. Whether you require it for advanced technological applications or traditional industrial uses, this Silicon Dioxide Powder delivers excellent results, ensuring your products meet the highest standards of excellence and reliability.

Applications:

Sunhere Fumed Silicon Dioxide Powder, with the CAS No: 7631-86-9, is a high-purity silicon dioxide powder renowned for its exceptional thermal stability, boasting a boiling point of 2230 °C. This makes it an ideal choice for a wide range of industrial and scientific applications. Packaged conveniently in 10kg specifications within kraft bags supported by pallets or cartons, it ensures safe and efficient transportation and storage, meeting the demands of various industries.

The versatility of Fumed Silicon Dioxide Powder is evident in its extensive application occasions and scenarios. In the pharmaceutical industry, it is widely used as an anti-caking agent and a thickening agent in tablet formulations, improving the flow properties of powders and enhancing the consistency of liquid medicines. Its high purity and stability make it suitable for use in sensitive medicinal products.

In the cosmetics sector, Silicon Dioxide Powder serves as a key ingredient in products like facial powders, lotions, and creams. It helps to absorb moisture, control shine, and improve the texture and spreadability of cosmetic products, providing a smooth and matte finish. The fine nature of Fumed Silicon Dioxide Powder allows for better skin adhesion and a natural appearance.

The electronics industry benefits greatly from this product as well. Due to its excellent insulating properties and resistance to high temperatures, Sunhere Fumed Silicon Dioxide Powder is used in the manufacture of electronic components and semiconductors. It helps in enhancing the durability and performance of electronic devices exposed to extreme thermal conditions.

Moreover, in the field of coatings and adhesives, Silicon Dioxide Powder acts as a reinforcing filler that improves mechanical strength and heat resistance. It is commonly incorporated into paints, varnishes, and sealants to enhance their durability and protective features. This makes it invaluable for industrial applications where longevity and reliability are critical.

Additionally, Fumed Silicon Dioxide Powder finds application in the food industry as an anti-caking agent, ensuring the free-flowing nature of powdered food ingredients and supplements. Its inert nature guarantees that it does not react with food substances, maintaining product integrity and safety.

In summary, Sunhere's Silicon Dioxide Powder, supplied in practical 10kg kraft bags with pallet or carton packaging, is a versatile material suitable for pharmaceutical, cosmetic, electronic, coating, adhesive, and food industries. Its high boiling point and excellent physical properties make it indispensable for enhancing product performance and stability across numerous applications.

Packing and Shipping:

The Silicon Dioxide product is carefully packaged to ensure maximum protection during transportation and storage. It is packed in multi-layered, moisture-resistant bags or drums, depending on the quantity and customer requirements. Each package is clearly labeled with product information, batch number, and safety instructions to maintain quality and traceability.

For shipping, the product is securely loaded into containers or trucks, adhering to all relevant safety and regulatory standards. Proper handling procedures are followed to prevent contamination or damage. Our logistics team ensures timely delivery to the designated destination while maintaining the integrity of the Silicon Dioxide product throughout the shipping process.

FAQ:

Q1: What is Silicon Dioxide commonly used for?

A1: Silicon Dioxide is widely used as an anti-caking agent in food products, a thickener in cosmetics, and as a key component in glass

manufacturing and semiconductor industries.

Q2: Is Silicon Dioxide safe for consumption?

A2: Yes, Silicon Dioxide is generally recognized as safe (GRAS) by food safety authorities when used within recommended limits in food products.

Q3: What forms of Silicon Dioxide are available?

A3: Silicon Dioxide is available in various forms including powder, fumed silica, and colloidal silica, each suited for different industrial and commercial applications.

Q4: How should Silicon Dioxide be stored?

A4: Silicon Dioxide should be stored in a cool, dry place away from moisture and direct sunlight to maintain its quality and effectiveness.

Q5: Can Silicon Dioxide be used in pharmaceutical applications?

A5: Yes, Silicon Dioxide is often used as an excipient in pharmaceuticals to improve the flow properties of powders and as a stabilizer in tablet formulations.

Anhui Sunhere Pharmaceutical Excipients Co., Ltd.

+86 19955438215 haileeping@sunhere-excipients.com anhuisunhere.com

ECONOMIC AND TECHNOLOGICAL DEVELOPING ZONE,HUAINAN,ANHUI 232007,CHINA