



Titanium dioxide R5566

Titanium dioxide (TiO2) is a naturally occurring compound that is widely used as a white pigment in various industries due to its excellent lightscattering properties and high refractive index. It is commonly found in two primary crystalline forms: rutile and anatase.

Application

1. Paints and Coatings: Titanium dioxide is a major component in paints, coatings, and architectural finishes, providing opacity, brightness, and UV resistance.

2. Plastics and Polymers: It's used to impart whiteness and opacity to plastic products, such as packaging materials, films, and plastic parts.

3. Cosmetics and Skincare: Titanium dioxide is found in many cosmetics, sunscreens, and skincare products due to its ability to reflect and scatter UV radiation.

4. Food and Pharmaceuticals: It's used as a food additive (E171) to enhance the appearance and texture of food products like candies, dairy items, and baked goods. It's also used in pharmaceutical formulations.

5. Ceramics and Glass: Titanium dioxide is added to ceramics and glass to improve their properties and appearance.

6. Photocatalysis: Titanium dioxide has photocatalytic properties, making it useful in self-cleaning surfaces, air purification, and water treatment technologies.