Heegermaterials

230 Steele St Denver, CO 80206 United States
https://www.heegermaterials.com/
Tel: (925) 385 8104

# Titanium Powder Safety Instructions

## Product Characteristics:

Titanium powder is usually light gray, and its color deepens as the particle size decreases. It is highly chemically active and easily reacts with oxygen in the air at room temperature, forming a dense oxide film. At high temperatures, it can react with carbon and nitrogen. Therefore, titanium powder can burn not only in air but also in carbon dioxide or nitrogen.

## Usage Reminders:

- Operators using titanium powder should undergo basic safety operation training to understand the basic characteristics and safety operation specifications of titanium powder.

- During handling, the product should be loaded and unloaded gently to prevent damage to the packaging and containers.

- Titanium powder should be used under argon protection.

- During use, pour the powder gently, ensure equipment is grounded, and take anti-static measures in the environment. Operators should wear protective gear.

- Avoid rapid or high-altitude pouring actions during use to prevent the generation of a large amount of fine dust. If titanium powder dust is generated in the air or in an oxygen-rich atmosphere, it can reach explosive conditions in confined spaces, posing a risk of combustion and explosion.

## Emergency Measures:

- In case of fire, use a Class D fire extinguisher or dry sand to extinguish the fire. Do not use water or carbon dioxide. Using water during intense heat or severe burning may cause an explosion.

## Storage Precautions:

- Store the product in a cool, ventilated warehouse, keeping the container sealed and preventing contact with air. Equip the storage area with appropriate firefighting equipment, including but not limited to Class D fire extinguishers and fire sandboxes.