



*Specialized in chemicals*

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## Technical Data Sheet

### Stannic oxide

#### Product Information

Chemical Name	Stannic oxide
CAS #	18282-10-5
Formula	O <sub>2</sub> Sn
Molecular Weight	150.71
Chemical Structure	



#### Description

Tin oxide is white, pale yellow or pale gray, the six parties or orthorhombic system powder. Is a kind of excellent transparent conductive material, an important semiconductor sensor material, has good permeability to visible light, it has excellent chemical stability in aqueous solution, and has specific conductivity and reflect the characteristics of infrared radiation, has been widely used in the lithium battery, solar battery, LCD display, optoelectronic devices, transparent conductive electrode, such fields as protection against infrared detection.

#### Physical Properties

Melting point	1127 °C
Boiling point	1800-900°C
Density	6.95 g/mL at 25 °C(lit.)
Water soluble	insoluble
Flash point	1800-1900°C
Refractive index	1.9968

#### Specification

Item	Specification
SnO <sub>2</sub> <%	99.54
Fe, %	0.0218
Cu, %	0.0005
Pb,%	0.0200

As,%	0.0002
S,%	0.0038
Burning Loss,%	0.1080
Particle size(-0.010um)	≥58

### Safety

Always refer to the Material Safety Data Sheet (MSDS)

### Applications

- 1) To paint industry with chromate, lime, vanadium, such as chlorine, production of pink, beige, yellow, purple golden color, with colorants used in ceramic, enamel.
- 2) Glass industry used as glass polishing agent, and to the opal glass
- 3) Used as fabric mordant dyeing industry and weight gain
- 4) Also used as a catalyst in organic synthesis, and used in the electronics industry.

### Packaging

25kg per plastic bucket

### Storage & Handling

Do not store in direct sunlight. Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation.

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Keep container tightly closed.

Avoid ingestion and inhalation.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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