

Technical Data Sheet

 **NAEWAI CORPORATION**

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Stannous oxide

Product Identification

Product name : Stannous oxide
Chemical Formula : SnO
CAS No. : 21651-19-4

Physical and Chemical Properties

| Property | Value / Description |
|-----------------------|--|
| Purity | 98% min |
| Physical State | Solid |
| Color | Blue or Black |
| Density | 6.45 g/cm ³ |
| Melting Point | 1080 °C |
| Boiling Point | Decomposes before boiling |
| Solubility in Water | Insoluble |
| Electrical Properties | Semiconductor with band gap ~2.5-3.0 eV |
| Stability | Unstable in air; slowly oxidizes to SnO ₂ |
| Reactivity | Amphoteric; reacts with acids and bases |

Applications

Precursor to other tin compounds, reducing agent (notably in copper ruby glass production), UV light illumination when combined with cerium oxide, soft abrasive, catalyst precursor

Packing

25kg net in sealed containers

Shipping Regulations

Not subject to transport regulations

Safety Information

May cause an allergic skin reaction. Causes serious eye irritation.

Causes damage to organs.

May cause damage to organs through prolonged or repeated exposure.