



**NANO-PARTICULATE  
FLUORINE TIN OXIDE**

**DATA SHEET – 057**  
**Issue 1, Effective Date: 05/09/2005**

**Synonyms:** Conductive tin compound, FTO.

	<b>C.A.S. No:</b>	<b>EINECS No:</b>
<b>Tin Oxide:</b>	<b>18282-10-5</b>	<b>242-159-0</b>
<b>Tin (IV) fluoride:</b>	<b>7783-62-2</b>	<b>232-016-0</b>

**Description:** Nano-particulate fluorine tin oxide is a mixed metal oxide designed as an alternative conductive filler to carbon black and metal powders. It allows paints and coatings to be formulated in white or pale colours with anti-static or static-dissipative properties.

**Physical state:** Inert off white powder, comprising aggregates of spherical primary particles. Non-flammable.

**TYPICAL PHYSICAL PROPERTIES:**

<b>Powder Resistivity:</b>	<b>&lt; 1.0 ohm.cm</b>
<b>Aggregate particle size (D50 value):</b>	<b>0.2 - 0.3 microns</b>
<b>Primary crystallite size:</b>	<b>&lt; 100 nm</b>
<b>Surface area (BET):</b>	<b>30 - 35 m<sup>2</sup> g<sup>-1</sup></b>
<b>Specific Gravity:</b>	<b>6.9</b>

**Keeling & Walker Limited reserve the right to make improvements to this product without prior notification. All information is given in good faith but without warranty.**

**Keeling & Walker Test Methods are available for all the above determinations.**

**Nano-particulate fluorine tin oxide is manufactured under a Quality Assurance System certified to comply with ISO 9000.**