



TIN OXIDES DATA SHEET - 018 Issue 2, Effective Date: 2/10/91

Chemical Name: tin (IV) oxide, stannic oxide, SnO₂
File → **CAS No:** [10282-10-5] **CCCN:** 282590 30 0 **EINECS:** 2421590
Description: Tin (IV) oxides produced thermally from high grade tin metal
Physical State: Inert white powders, comprising aggregates of spherical primary particles. Non-flammable. Specific Gravity 6.95.
Applications: Glaze opacifiers, pigments, electronic ceramics, capacitors, special refractories, chemicals, lapidary and lens polishing

CONTROL PROPERTIES

Chemical Data: These materials are produced from tin metal conforming to the BS3252:1986 specification (99.85% minimum purity).

Physical Data: These materials are manufactured and tested to conform to the following Sedigraph Particle Size Distribution:

	10	5	2	1	0.5
Superlite C	97-100	97-100	96-100	93-99	64-94
KW Lite	97-100	97-100	96-100	93-99	64-94
Superlite A	95-100	93-100	89-100	82-97	60-90
Vertex	90-100	90-100	82-100	74-97	50-85
SV5	85-100	91-98	75-88	52-65	15-40

TYPICAL SIGNIFICANT PROPERTIES (I)

Chemical Data, Impurities (as oxides):

As, Bi, Co, Cu, Fe, In, Ni, Pb*, Sb:	Individual oxides	0.05%	maximum
Ag, Cd, Hg, Mn, Zn:	Individual oxides	0.01%	maximum
Total of all impurities listed:		0.15%	maximum
	* Pb content of Superlite C:	0.01%	maximum

	Surface Area (BET)	Tap Bulk Density
	m ² / g	g / l
Superlite C	7 - 11	600
KW Lite	7 - 11	600
Superlite A	5 - 9	1100
Vertex	4 - 8	1400
SV5	2 - 4	1300

All information is given in good faith but without warranty.
 This Data Sheet supersedes and replaces all previous issues.
 (I) Based on bulk samples assayed at intervals.