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DATA SHEET - 031

Issue 2, Effective Date: 26/03/01

Chemical Name: stannic oxide, tin (IV) oxide, SnO₂

C.A.S. No: [18282-10-5]

CCCN No: 282590 30 0

EINECS No: 2421590

Description: Stannic oxide produced thermally from high grade tin metal

Physical state: Inert white powder, comprising aggregates of spherical primary particles. Non-flammable. Specific Gravity 6.95

CONTROL PROPERTIES

Chemical data: This material is produced from tin metal conforming to the BS EN 610 : 1996 specification (99.85% minimum purity)

Physical data: This material is manufactured and tested to conform to the following Sedigraph particle size distribution:

% Finer Than	Typical	Control Range
10 microns	99	95 to 100
5 microns	97	93 to 100
2 microns	78	70 to 90
1 microns	28	15 to 40
0.5 microns	5	0 to 10

TYPICAL SIGNIFICANT PROPERTIES (I)

Surface Area (BET) m² g⁻¹ 1.3

Tap Density g l⁻¹ 1200

Chemical data, impurities (as oxides):

As, Bi, Co, Cu, Fe, In, Ni, Pb, Sb	Individual oxides 0.05% maximum
Ag, Cd, Mg, Mn, Zn	Individual oxides 0.01% maximum
Total of all impurities listed	0.15% maximum

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.

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

Keeling & Walker tin oxide is manufactured under a Quality Assurance System certified to comply with ISO 9000.