



Product Data Sheet

Bismuth Oxide – Frit Grade

UPDATED ON 2011-09-01

Nomenclature:	Bismuth oxide Trioxyde de dibismuth Dibismuth trioxide	Bismuthous oxide Bismuth trioxide Bismuth sesquioxide
Formula:	Bi_2O_3	
CAS Number:	1304-76-3	
Inventory status:	TSCA EINECS (No.: 215-134-7)	EPA ENCS (No.: 1-98)
		DSL AICS

Chemical Data:

	Specification	Typical value
Bismuth Oxide	min. 99.95 %	
Total metallic impurities	max. 0.05 %	
Bismuth	89.3 – 90.1 %	89.7 %
Fe	max. 50 ppm	20 ppm
Na	max. 50 ppm	10 ppm
Cu, Ag, Pb	max. 10 ppm	5 ppm
Cl	max. 10 ppm	< 10 ppm
Loss on drying	max. 0.2 %	< 0.1 %

Morphological and Physical Data:

	Specification	Typical value
Particle size: d50 (Sieve analysis)		25 μm
Appearance		yellow powder
Tapped density		5 - 6 g/cm^3
Density (theor.)	8.5–9.4 g/cm^3	
Molecular weight	465.96	

Regulatory Information:

RoHS	The material complies with RoHS/WEEE/ELV-regulation: Pb, Hg, Cr(VI), PBB, PBDE: each < 1000 ppm Cd: < 100 ppm
REACH	Product is registered acc. to REACH-regulation

Particle Size Distribution:

