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## TECHNICAL DATA SHEET

# ZINC OXIDE GRADE 101

### Description

Our Zinc Oxide product is a brilliant white powder manufactured by the French (Indirect) Process.

Grade 101 offer medium-high m<sup>2</sup>/g surface area ("SA"), high assay and very low impurities.

Grade 101 replaces grades ZOCO 100, Zinc Oxide LLC 800H, and KADOX 915.

This grade is used where lower impurities are required, and where increased zinc oxide reactivity provides benefits such as in stearates and other zinc chemical applications.

Grade 101 meets GMP 21CFR110, is USFDA approved as GRAS (Generally Recognized As Safe) at 21cfr182.8991 and is authorized by the USFDA for use wherever GRAS is approved including food contact in rubber, plastics, and coatings.

Grade 101 also meets the requirements of ASTM specification D79, 2002/95/EC Restriction of Hazardous Substances Directive (RoHS) for heavy metals and Waste Electrical and Electronic Directive (WEEE), and other regulations where high quality zinc oxide is required.

This product is also available in pelleted form (grade 101P), and with processing aid/surface treatment (grade 101T).

## REPRESENTATIVE CHEMICAL PROPERTIES

Chemical Analysis (%)	Typical Limit**	Nominal	Test Method
Zinc Oxide (ZnO) ignited basis	99.8 min	99.9	Supplier (calculation)
Lead (Pb) *	0.003 max	0.002	ASTM D4075
Cadmium (Cd) *	0.002max	0.0003	ASTM D4075
Iron (Fe)	0.002 max	0.0003	ASTM D4075
Copper (Cu)	0.001 max	0.0001	ASTM D4075
Loss at 110°C (moisture)	0.35 max	0.2	ASTM D280

## REPRESENTATIVE PHYSICAL PROPERTIES

Surface Area (m <sup>2</sup> /g) *	6.0 – 8.5	7	ASTM D4315
Fineness retained on 325 mesh (%) *	0.03 max	0.01	ASTM D185
(Fineness passing through 325 mesh (%) Specifications	99.97 min	99.99	ASTM D185) ASTM D79

\* Regular test item for process & product control and included on COA. Other items are for reference only.

\*\* Zochem can produce zinc oxide to customer specifications superseding the above table.

**Standard Packaging:** 50 lb. Kraft paper bags on 2,000 to 2,500 lb net wt. pallet, or 2,000 lb FIBC.