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TECHNICAL DATA SHEET

ZINC OXIDE

GRADE 400

Description

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

Grade 400 is our most popular general use high quality zinc oxide. Grade 400 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 400 also meets the requirements of ASTM specification D79, 2000/53/EC End of Life Vehicles (ELV Directive), 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. The product is also available in pelleted form (grade 400P), and with around up to 0.1% processing aid (grade 400T) for certain rubber mixers.

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- Grade 400 replaces grades ZOCO 604, ZOCO 624S, KADOX 720 and KADOX 721.
- Grade 400P replaces grades ZOCO 624 KADOX 720P, and KADOX 720P.
- Grade 400T replaces grades ZOCO 672, KADOX 720C and KADOX 720CO.

Uses

Zochem

This grade is widely used in tire and rubber, paint and coatings, in applications requiring an FDA approved substance, and in all other applications except when a special product is requested or required.

REPRESENTATIVE CHEMICAL PROPERTIES

| Chemical Analysis (%) | Typical Limit** | Nominal | Test Method |
|--|-----------------|---------|------------------------|
| Zinc Oxide (ZnO) ignited basis | 99.7 min | 99.9 | Supplier (calculation) |
| Lead (Pb) * | 0.1 max | 0.02 | ASTM D4075 |
| Cadmium (Cd) * | 0.01 max | 0.001 | ASTM D4075 |
| Iron (Fe) | 0.003 max | 0.001 | ASTM D4075 |
| Copper (Cu) | 0.001 max | 0.0001 | ASTM D4075 |
| Loss at 110°C (moisture) | 0.3 max | 0.2 | ASTM D280 |
| REPRESENTATIVE PHYSICAL PROPERTIES | | | |
| Surface Area (m2/g) * | 4 - 6 | 5 | ASTM D4315 |
| Fineness retained on 325 mesh (%) * | 0.03 max | 0.01 | ASTM D185 |
| (Fineness passing through 325 mesh (%) | 99.97 min | 99.99 | ASTM D185) |
| Specifications | | | 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 unit, or 2,000 lb FIBC.

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