



# IsoQure<sup>®</sup> ZnO Active 100

## Technical Data Sheet

### IsoQure<sup>®</sup> ZnO Active 100

**Chemical name:** Zinc oxide

**CAS Number:** 1314-13-2

**EINECS Number:** 215-222-5

IsoQure<sup>®</sup> ZnO Active 100 is a high surface area, small-particle active zinc oxide with very good powder flow, suitable for automatic weighing systems. Compared to ordinary zinc oxides, it provides improved dispersion and higher activation efficiency in a wide range of applications, particularly where high specific surface area is required.

### Material Definition

**Appearance:** White to light yellowish powder (fine particles of precipitated zinc oxide)

**ZnO content:**  $\geq 90 \%$

**Lead (Pb<sup>2+</sup>) content:**  $\leq 0.001 \%$

**Cadmium (Cd<sup>2+</sup>) content:**  $\leq 0.001 \%$

**Iron (Fe<sup>2+</sup>) content:**  $\leq 0.005 \%$

**Sieve residue, 325 mesh:**  $\leq 0.1 \%$

**Specific surface area (BET):** Approx. 100 m<sup>2</sup>/g\*

\* At the time of manufacture; nitrogen adsorption, BET method.

### Application

IsoQure<sup>®</sup> ZnO Active 100 is designed for use in highly demanding applications where very high zinc oxide surface area and excellent dispersion are required. Typical uses include:

- Sustainable tire and rubber compounds
- Truck and bus radial (TBR) tire compounds, including improved tread abrasion resistance
- Natural rubber compounds for non-pneumatic tires (as an efficient activator)
- Antibacterial and UV-blocking materials
- Catalyst systems for removal of hydrogen sulfide
- High performance plastics and fibers
- Systems requiring improved adhesion between rubber and steel

The combination of small primary particle size, dustless powder form and high specific surface area allows efficient activation at reduced zinc oxide dosage levels, while facilitating handling and automated dosing.

## Handling, Storage and Packaging

The processing and use of IsoQure<sup>®</sup> ZnO Active 100 require adequate technical and professional knowledge. Please consult the safety data sheet and observe local safety regulations. The legal requirements prevailing in your country, especially in the avoidance of accidents, industrial hygiene and patent rights, must be observed.

IsoQure<sup>®</sup> ZnO Active 100 should be stored in tightly sealed original containers in a cool and dry place. When properly stored it remains stable for an extended period; observe the indicated retest date on the label.

Standard pack sizes of IsoQure<sup>®</sup> ZnO Active 100 are 25 kg, 500 kg and 1000 kg in PP woven bags.

## Regulatory Information

Specific national and international regulatory status (e.g. EU REACH, TSCA and food contact status) is available on request and is documented in the corresponding regulatory dossiers and SDS for IsoQure<sup>®</sup> ZnO Active 100.

## Availability

- Americas (United States, Canada, South America)
- APAC (Asia-Pacific)
- ANZ (Australia, New Zealand)
- EU (European Union)
- PRC (People's Republic of China)
- UK (United Kingdom)

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## Disclaimer / Conditions

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damages incurred. Our general [Terms and Conditions](#) apply.

Stated storage and shelf life times are minimum guaranteed values for a period starting on the day of shipment. After this period has expired, the product requires additional quality control testing but may very well still be within specification. For more information, refer to our [Shelf Life Policy](#).

For updates on product information, please check this web page regularly:

<https://kautschuk.com/products/specialty/isoqure-zno-active-100>