

IsoQure[®] ZnO 25 CCF

Chemical name: Zinc oxide coated nano calcium carbonate

CAS Number: Mixture (zinc oxide: 1314-13-2; calcium carbonate: 471-34-1)

EINECS Number: Mixture (zinc oxide: 215-222-5; calcium carbonate: 207-439-9)

IsoQure[®] ZnO 25 CCF is an active composite zinc oxide coated on a nano calcium carbonate core with a high specific surface area of approx. 25 m²/g and small particle size. It is suitable for both natural and synthetic rubber (including EPDM) and provides similar or better mechanical properties compared to conventional zinc oxide grades, such as abrasion resistance, tensile strength and elongation at break.

Material Definition

Appearance: White to light yellowish powder

ZnO content: ≥ 93 %

Lead (Pb²⁺) content: ≤ 0.001 %

Copper (Cu²⁺) content: ≤ 0.0005 %

Manganese (Mn²⁺) content: ≤ 0.001 %

Density: Approx. 3.4 g/cm³

Surface Area: Approx. 25 m²/g

The zinc oxide content is about 50–52 % of the total product weight; the rest is inert nano calcium carbonate.

(BET surface area is given for both coat and core material and at the time of manufacture.)

Application

IsoQure[®] ZnO 25 CCF is designed for dynamic rubber applications where high activity and excellent dispersion are required. It is suitable for both natural and synthetic rubber and recommended for, e.g.:

- Passenger car and motorcycle tires
- Tire tread compounds

- Conveyor belt products
- Rollers
- Automotive rubber parts
- Rubber profiles
- Shoe soles and other general rubber goods

Compared to ordinary zinc oxide, IsoQure® ZnO 25 CCF provides similar or improved abrasion resistance, tensile strength and elongation at break, depending on compound formulation. The product is free-flowing with fast incorporation and good dispersion in the rubber mix.

Typical dosage: 4–10 phr, depending on application and performance requirements.

Handling, Storage and Packaging

The processing and use of IsoQure® ZnO 25 CCF 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, working hygiene and patent rights, must be observed.

IsoQure® ZnO 25 CCF 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 product label.

Standard pack size of IsoQure® ZnO 25 CCF is 25 kg in a PP woven bag with PE liner and an additional PE inner bag.

Regulatory Information

Specific national and international regulatory status (e.g. EU REACH, TSCA, and any relevant food-contact or ecolabelling status) is available on request and is documented in the corresponding regulatory dossiers and safety data sheet for IsoQure® ZnO 25 CCF.

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)

Disclaimer / Conditions

Revision: 2025-11-24 / 9ba0

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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-25-ccf>