

IsoQure[®] ZnO 30 CC

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 30 CC is an active composite of zinc oxide coated on a nano calcium carbonate core, combining high surface area [approx. 30 m²/g] with small particle size. It is highly reactive with thiazole-based accelerators [e.g. MBT, MBTS] and thiuram accelerators [e.g. TMTD], providing efficient activation in rubber compounding.

Material Definition

Appearance: White to light yellowish powder

ZnO content: ≥ 90 %

Pb content: ≤ 0.001 %

Cu content: ≤ 0.001 %

Mn content: ≤ 0.001 %

pH: 8.5 – 10.5

Sieve residue [45 µm]: ≤ 0.5 %

Other content: Nano calcium carbonate core

Surface Area: Approx. 30 m²/g

The zinc oxide content is about 37–43 % of the total product weight; the rest is inert nano calcium carbonate.

Application

IsoQure[®] ZnO 30 CC is designed for dynamic and transparent rubber applications where high activity and excellent dispersion are required. It is suitable for both natural and synthetic rubber and is particularly recommended for:

- Bicycle and motorcycle tires
- Tire tread and sidewall compounds
- Inner tubes
- Rollers and conveyor belt compounds
- Automotive rubber parts
- Transparent and non-transparent shoe soles
- Transparent rubber products such as rubber bands

In combination with thiazole and thiuram accelerators, IsoQure[®] ZnO 30 CC can provide improved abrasion resistance, tensile strength and elongation at break; improvements of more than 10 % are achievable depending on the compound formulation.

The high specific surface area also makes the product suitable for transparent rubber goods and supports good thermal conductivity and processing in silica-filled compounds.

IsoQure[®] ZnO 30 CC is free-flowing with fast incorporation and good dispersion in the rubber mix.

Typical dosage guidance:

- 1–2 phr for rubber bands
- 3–4 phr for transparent shoe soles
- 4–8 phr for tires and conveyor belts
- 3–10 phr for rollers

The product purity is suitable to meet stringent ecolabelling requirements for tires.

Handling, Storage and Packaging

The processing and use of IsoQure[®] ZnO 30 CC 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 30 CC 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 30 CC 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 30 CC.

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 / 2f56

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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-30-cc>