



IsoQure[®] ZnO 15 RA

Technical Data Sheet

IsoQure[®] ZnO 15 RA

Chemical name: Zinc oxide / zinc hydroxide on calcium sulfate carrier (mixture)

CAS Number: Mixture (zinc oxide: 1314-13-2; calcium sulfate: 7778-18-9)

EINECS Number: Mixture (zinc oxide: 215-222-5; calcium sulfate: 231-900-3)

IsoQure[®] ZnO 15 RA is a composite zinc oxide / zinc hydroxide activator on a calcium sulfate carrier. It is designed as a cost-efficient, more environmentally friendly replacement for conventional zinc oxide white seal and red seal grades in rubber compounding.

Material Definition

Appearance: White to yellowish powder

Zinc oxide / Hydroxide content: Approx. 40 %

Calcium sulfate: 55 ± 5 %

Heavy metals as Pb²⁺: ≤ 0.002 %

Copper as Cu²⁺: ≤ 0.001 %

Cadmium as Cd²⁺: ≤ 0.001 %

Specific surface area: Approx. 15 m²/g

Application

IsoQure[®] ZnO 15 RA is suitable as an activator for a wide range of rubber products and can replace standard zinc oxide grades at typical dosages of 4–6 phr, depending on the compound recipe. Recommended applications include:

- Shoe outsoles
- Bicycle inner tubes
- Bicycle tyres
- Truck inner tubes
- Truck tyres
- Tyre retread compounds
- Rubber spare parts
- Rubber balls

- General rubber household products

In shoe outsole formulations it can improve modulus, hardness, tensile strength and transparency. In bicycle inner tubes it provides scorch time and cure time comparable to zinc oxide white seal with similar mechanical properties. In bicycle tyres it can reduce cure time while maintaining scorch safety and delivering modulus, hardness and tensile strength comparable to zinc oxide white seal.

Handling, Storage and Packaging

The processing and use of IsoQure® ZnO 15 RA 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 regarding accident prevention, industrial hygiene and patent rights, must be observed.

IsoQure® ZnO 15 RA 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 15 RA 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 15 RA.

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

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research carefully and then to continually test the product and its application procedures within the context of its specific use. Use of our products and data requires diligence and care, and is within the sole responsibility of the user. Kautschuk Group does not accept any liability for 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-15-ra>