

Zinc Oxide, Micronized

Specification Sheet

Description: Zinc oxide, from natural zinc ore, super-finely micronized. Particle size: <100 nanometer (0.1 micrometer), mean particle size is around 85 nm (depending on the method of measurement the mean particle size has also been found to be in the range of 30-55nm). Able to reflect & absorb UVA and UVB light. Fine white transparent powder with minimal whitening, faint odor. Dispersible in water & oils.

CAS: 1314-13-2

INCI Name: Zinc oxide

Composition: Zinc oxide

Purity Grade: No purity grade applicable

Appearance: Fine white transparent powder with minimal whitening, faint odor

Benefits:

- Reflects sunlight (UVB rays)
- Has soothing effects and can be used for skin irritations
- Has some antimicrobial properties
- Transparent look with minimal whitening effect

Use: Add preferentially to water phase, usually combined with organic sunscreens, typical use level 3-6% when combined with organic sunscreens, use level when used alone 3-20%. For external use only.

Applications: Sun care & after-sun products, soothing skin care products, mineral makeup.

Solubility: Insoluble but dispersible in water and oils

Preservation: Preservative-free

Storage: Store light-protected at a cool and dry place

Country of Origin: USA

Raw material source: Metallic zinc

Manufacture: Zinc oxide is produced from metallic zinc which is melted in a graphite crucible and vaporized at high temperatures (around 1000 °C). Zinc vapor reacts then with the oxygen in the air to give zinc oxide. The preparation of micronized (or nano-sized) zinc oxide is then carried out by the precipitation method where zinc salt solutions are reacted with alkali solutions.

Animal Testing: Not animal tested

GMO: GMO-free (does not contain plant-derived components)

Vegan: Does not contain animal-derived components

HS Code: 2817000000

Regulatory Information: Sunscreens are registered as API (Active Pharmaceutical Ingredient) or OTC-drug with the FDA. This means that, if you want to sell products containing a sunscreen, your facility must be registered with the FDA and operate under cGMP guidelines.

Note: International shipping is prohibited.