

Zinc Oxide, Micronized & Coated

Specification Sheet

Description: Zinc oxide that consists of approximately 98% micronized zinc oxide and 2% hydrophobic coating material (silicone derivative). Derived from natural zinc ore, super-finely micronized. Particle size <200 nanometer (<0.2 micrometer), mean particle size 86 nanometer.

CAS: 1314-13-2, 2943-75-1

INCI Name: Zinc oxide, triethoxycaprylylsilane

Composition: Zinc oxide, triethoxycaprylylsilane

Purity Grade: No purity grade applicable

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

Benefits:

- Has soothing effects and can be used for skin irritations
- Has some antimicrobial properties
- Transparent look with minimal whitening effect
- Coated zinc oxide is more compatible with acrylate-based thickeners (e.g. carbomer) than non-coated zinc oxide, because it has alkaline properties in formulations and needs therefore less or no neutralizers like TEA or NaOH

Use: To be dispersed into the oil phase of formulation. Typical use level when given alone 3-25%. For external use only.

Applications: Makeup products. Does not provide coverage in makeup due to its transparency. If coverage is needed use regular zinc oxide or titanium dioxide.

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