

TECHNICAL DATA SHEET

Product Name: Ultra Fine White French Clay

INCI Name: Kaolin

CAS: 1332-58-7

Chemical Classification: Inorganic compound

Functional Categories: Bulking Agent, Abrasive, Opacifying/Pearlescent Agent, Skin Protectant, Slip Modifier, Absorbent

Description: Kaolin, also known as white clay, is a natural mineral ingredient derived from the clay mineral kaolinite. It was named after Kaol-ing hill in China, where it has been mined for centuries. It contains 44-46% silicon dioxide, 37-40% aluminum oxide, 0.2-0.4% magnesium oxide, 0.03-0.06% calcium oxide, 0.2-0.4% iron oxide, and 1.5-2.0% titanium dioxide. Kaolin is used in cosmetics for its ability to absorb impurities, regulate sebum, and improve product texture. Classified as an inorganic compound, it comprises aluminum silicates. Its fine, silky texture allows easy dispersion in formulations, making it suitable for various product types. In skincare products, kaolin provides a mattifying effect by absorbing excess oil and reducing shine, commonly found in powders, masks, and cleansers. Its mildly abrasive structure gently exfoliates, removing dead skin cells without causing irritation. Kaolin also calms irritated skin and provides protection against environmental factors. In decorative cosmetics, it enhances formulation stability, contributes to a creamy consistency, and aids pigment binding. In toothpaste, it helps remove plaque, while in dry shampoos, it effectively absorbs excess sebum. It improves slip feel in powdered and liquid formulations. Safe for use, kaolin is fragrance-free, non-comedogenic, and suitable for sensitive and oily skin types. Its fine structure and gentle properties make it one of the most widely used mineral ingredients. It appears in cleansing, protective, and skincare products. The pH of a 5% solution is approximately 5. It is odorless and insoluble in water.

Benefits:

- Absorbs excess sebum, reducing skin shine.
- Calms irritation and gently protects skin from external factors.

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- Enhances cosmetic formulation stability and pigment binding.
- Mild abrasive action gently removes dead skin cells.
- Provides a matte finish in powders and decorative cosmetics.
- Improves slip feel and facilitates product application.
- Absorbs moisture and oil in dry shampoos and toothpaste.
- Odorless, non-comedogenic, suitable for all skin types.
- Fine structure enables easy dispersion in formulations.
- Chemically stable and water-insoluble, ensuring durability in formulations.

Usage Guidelines: Kaolin is incorporated into cosmetic formulations in various concentrations depending on product type and desired effects. Facial masks typically contain 30–60%, where it absorbs sebum and impurities, mattifies skin, and offers mild calming effects. In powders and decorative cosmetics, concentrations range from 5–30%, depending on desired texture and coverage. Toothpaste formulations typically contain 10–40% kaolin, aiding mechanical plaque removal and enhancing formulation stability. Dry shampoos contain 20–50% kaolin due to its excellent sebum absorption, extending hair freshness. In lotions and creams, concentrations typically range from 1–5% for mattifying effects and texture enhancement. Kaolin remains suspended in formulations since it is insoluble in both oil and water phases. Ensuring proper homogenization is critical for even particle distribution. Kaolin powder blends easily with dry ingredients, while pre-dispersion in small amounts of liquid is recommended for creams and lotions.

Natural or Synthetic Ingredient: Kaolin is a natural ingredient extracted from mineral sources, specifically kaolinite mined and processed for cosmetic use. It undergoes no synthetic chemical modification and is utilized in its natural state.

Origin: France

Animal Testing: Not tested on animals

GMO Status: Non-GMO

Vegan: Contains no animal-derived components

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