

TECHNICAL DATA SHEET

Product Name: Ultra Fine Green French Clay

INCI Name: Illite, Kaolin, Montmorillonite

CAS: 12173-60-3, 1332-58-7, 1318-93-0

Chemical Classification: Inorganic compound

Functional Category: Extender, Filler

Description: Ultra Fine Green French Clay is a premium-quality green clay sourced from France, renowned for its ultra-ventilated fineness, providing exceptional absorption capabilities and beneficial effects for skin and hair. It is obtained through careful drying and fine sifting processes, ensuring a homogeneous texture and maximum efficacy in cosmetic formulations. The clay contains a rich mineral composition, primarily montmorillonite and illite, with significant amounts of silicon, magnesium, calcium, and iron. This mineral combination imparts pronounced detoxifying and remineralizing effects. Its high absorbency effectively removes excess sebum, impurities, and toxins, promoting purified and matte skin. Simultaneously, the abundant minerals revitalize the skin, improve skin tone, and stimulate cellular regeneration. Primarily used in skincare formulations such as masks, scrubs, and treatments targeting oily and problematic skin, it reduces the appearance of enlarged pores and soothes irritations. In hair care products, it regulates sebum production, leaving hair refreshed and voluminous. Its fine structure easily disperses in aqueous and gel bases, making it versatile for various formulations. Compared to standard green clay, the ultra-fine version features a gentler texture, suitable even for sensitive skin, balancing effective absorption and gentle treatment. In aromatherapy formulations, it is often combined with hydrolats and essential oils to enhance its beneficial effects. Particle size is below 15 microns. It is a homogeneous olive-green powder, odorless. Due to its natural origin, color may slightly vary between batches. pH (20% aqueous solution) ranges from 8 to 8.5. It can be suspended in water.

Mechanism of Action: The mechanism of action of Ultra Fine Green French Clay is based on its unique structure and chemical composition, enabling efficient impurity absorption, oil balancing, and skin remineralization. The clay acts through absorption, physically drawing excess sebum and impurities from skin and hair. Its lamellar structure (layered crystalline lattice) allows it to absorb large amounts of water, oils, and toxins,

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aiding skin detoxification. In addition to absorption, it has adsorptive properties, attracting charged particles (heavy metals, toxins, microorganisms) onto its surface and binding them through ionic exchange. This process is particularly beneficial for problematic skin, removing bacteria and impurities that may cause inflammation. The clay's silicon, calcium, magnesium, and iron penetrate the skin's superficial layers, facilitating remineralization. Silicon enhances collagen synthesis, elasticity, and strengthens the skin barrier; magnesium reduces oxidative stress; calcium supports cell regeneration and tissue repair. The mineral-rich composition offers an astringent effect, tightening pores and controlling sebum secretion, ideal for oily and combination skin. The minerals improve microcirculation, nourishing cells for a healthier complexion. Its mild alkalinity helps balance skin pH, particularly beneficial for irritated and sensitive skin. Its ability to soothe redness and reduce inflammation suits acne-prone, eczematous, or dermatitis-prone skin. The ultra-fine structure allows gentle mechanical exfoliation, removing dead cells, improving skin texture, and promoting regeneration without irritation. In masks and scrubs, it functions as a natural exfoliant, enhancing skin radiance and freshness.

Benefits:

- Removes impurities from pores, promoting clearer skin.
- Reduces skin oiliness, especially beneficial for oily skin.
- Alleviates redness and irritation in problematic skin areas.
- Removes dead cells and promotes regeneration, making skin smooth.
- Tightens pores, reducing acne and blackhead formation.
- Controls oily shine, leaving skin matte.
- Regulates scalp oiliness and strengthens hair roots.

Usage Instructions: In facial masks, use concentrations between 20%-50%, mixed with water, hydrolats, or vegetable oils to form a smooth paste. When the mask dries on the skin, it effectively draws out toxins, excess sebum, and impurities, calming irritations and enhancing skin tone. In exfoliants, apply at concentrations of 10%-30%, combined with moisturizing or abrasive ingredients. Its fine texture gently exfoliates, removing dead cells and stimulating skin regeneration, resulting in smooth, refreshed skin—particularly suitable for oily and combination skin types. In hair products like masks, use at concentrations of 10%-20%. It helps regulate scalp sebum production, reduces excessive oiliness, refreshes hair, and strengthens strands. Additionally, it cleanses the scalp

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of accumulated impurities, leaving hair healthy and revitalized. In soap manufacturing, use smaller amounts, between 5%-10%, to impart mild detoxifying properties. Soaps containing this clay often offer a matte finish ideal for oily skin care. The clay combines easily with essential oils and active ingredients to hydrate, soothe, or cleanse skin, depending on the formulation. It effectively stabilizes and thickens emulsions, synergistically working with thickeners like xanthan gum and hydroxyethyl cellulose. Additionally, it enables effective pigment suspension in cosmetic formulations. Green French Clay is also frequently used in detox baths and wraps due to its revitalizing and refreshing skin properties, making it an indispensable natural ingredient in skin and hair care.

Natural or Synthetic Ingredient: Ultra Fine Green French Clay is a natural ingredient sourced from natural clay deposits in France. The clay processing includes cleaning, drying, and fine grinding without chemical modifications, making it entirely natural.

Origin: France

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components.

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