

TECHNICAL DATA SHEET

Product Name: Ultra Fine French Yellow Clay

INCI Name: Illite, Kaolin

CAS: 12173-60-3, 1332-58-7

Chemical Classification: Inorganic compound

Functional Category: Extender, Filler

Description: Ultra Fine French Yellow Clay is a natural mineral ingredient recognized for its cleansing, revitalizing, and balancing properties on the skin. Sourced from deposits in France, it is identifiable by its pale yellow color derived from divalent iron oxides, alongside silicon, calcium, magnesium, and other trace elements. This mineral combination enhances its cleansing, remineralizing, and mild toning effects on the skin. Its gentle absorptive ability removes excess sebum and impurities without drying, while ionic adsorption binds toxins and microorganisms, aiding detoxification. Skin feels refreshed, purified, and mattified, reducing the likelihood of acne and blackheads. The clay's astringent properties mildly tighten pores, improve skin tone, and promote regeneration. Additionally, its mineral content nourishes the skin, promoting a healthier and radiant appearance. Yellow clay soothes irritation and redness, making it suitable for sensitive, reactive skin and conditions like eczema and rosacea. Its ultra-fine structure allows easy blending with water, hydrolats, and plant oils, ideal for masks, exfoliants, and body treatments. Post-application, the skin remains soft, matte, and refreshed without tightness. French Yellow Clay also regulates scalp sebum, reducing dandruff, removing impurities, and restoring natural hair shine. In soaps, it offers mild detoxification and natural coloring. Particle size is below 15 microns, ensuring a smooth and homogeneous texture suitable for cosmetic formulations. The powder is homogeneous, pale yellow, odorless, with slight color variations due to its natural origin. pH value (20% aqueous suspension) ranges between 8 and 8.5.

Mechanism of Action: Ultra Fine French Yellow Clay gently absorbs impurities and excess sebum while simultaneously releasing minerals to regenerate and revitalize the skin. Its lamellar structure binds water and nutrients, facilitating gradual delivery to the skin, thus enhancing hydration and tone. The clay's mildly alkaline nature balances skin pH, reducing irritation and evening skin tone. Silicon, iron, and magnesium strengthen

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skin structure, support collagen synthesis, and enhance microcirculation. Its astringent action tightens pores, and its fine texture allows gentle exfoliation, stimulating natural skin renewal without compromising its barrier. When mixed with water, it forms a smooth, easy-to-apply paste, leaving skin refreshed and soft.

Benefits:

- Removes impurities from pores for clearer skin.
- Reduces skin oiliness, ideal for oily skin.
- Soothes redness and irritation in problematic areas.
- Exfoliates dead cells, aiding skin regeneration and smoothing.
- Tightens pores, preventing acne and blackheads.
- Reduces oily shine, leaving skin matte.
- Controls scalp oiliness and strengthens hair roots.

Usage Instructions: For facial masks, recommended concentrations are between 20% and 50%, mixed with water, hydrolats, or plant oils to form a paste applied to the skin. As it dries, it deeply cleanses pores, removing excess sebum and toxins while calming and refreshing the skin. In exfoliants, yellow clay is used at concentrations of 10%-30%, combined with abrasive particles or moisturizing ingredients, providing gentle exfoliation, dead cell removal, and promoting regeneration, ideal for sensitive and combination skin. For hair care, including masks or scalp treatments, concentrations of 10%-20% balance scalp oiliness, remove impurities, and reduce dandruff, restoring natural hair shine and volume. In soaps, concentrations typically range from 5%-10%, offering mild detoxification, natural coloring, and a mattifying effect suitable for oily and combination skin. The clay blends easily with essential oils, herbal extracts, and thickeners to achieve desired texture and effects, effectively thickening and stabilizing emulsions. It works synergistically with common thickeners like xanthan gum and hydroxyethyl cellulose, suspends pigments, and is ideal for detox baths, wraps, and cleansing products. It should be added to the aqueous phase and mixed until fully hydrated, with typical usage levels from 1%-50%. Suitable for creams, lotions, mask formulations, facial tonics, and body wraps. External use only.

Natural or Synthetic Ingredient: Ultra Fine French Yellow Clay is natural, sourced from French clay deposits, processed by cleaning, drying, and finely milling without chemical modifications.

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Origin: France

Animal Testing: Not tested on animals

GMO: Non-GMO

Vegan: Contains no animal-derived components.



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