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Product Name: Strawberry Jojoba Pearls (20/40)

INCI name: Hydrogenated Jojoba Oil

CAS: 92457-12-0

Synonyms: Hydrogenated jojoba oil, jojoba wax beads, jojoba wax pearls, hydrogenated jojoba wax, jojoba exfoliating beads

Chemical classification: Hydrogenated vegetable wax (esters of long-chain fatty acids and fatty alcohols)

Functional category: Mechanical exfoliant, skin conditioning agent

Description: Hydrogenated jojoba oil in the form of strawberry-colored pearls is a solid, wax-like cosmetic raw material of plant origin obtained through controlled hydrogenation of jojoba oil. Through this process the liquid oil is converted into a stable solid form while retaining chemical affinity with the natural lipids of the skin. The pearls are spherical and uniformly granulated, providing controlled and gentle mechanical action without sharp edges that could irritate the skin. The strawberry color has an exclusively aesthetic and visual function and does not influence the safety or effectiveness of the ingredient. In cosmetic formulations this ingredient is primarily used as a gentle mechanical exfoliant. During massage on the skin, the pearls remove surface impurities and dead epidermal cells without disrupting the skin barrier. Unlike mineral or synthetic abrasives, hydrogenated jojoba pearls do not break into sharp fragments but retain their shape, which makes them suitable even for sensitive skin types. After rinsing, the skin remains smooth, soft and visually more even. In addition to the exfoliating effect, hydrogenated jojoba oil also acts as a skin conditioning agent. Its lipid structure contributes to a feeling of softness and reduces dryness that often occurs after cleansing or exfoliation processes. Due to its good compatibility with skin lipids, it does not clog pores and integrates well into formulations for facial and body care, as well as products intended for sensitive areas such as the area around the eyes when used in appropriate particle size and concentration. This ingredient is stable over a wide temperature and pH range typical for cosmetic products and does not react with other formulation components. Due to its plant origin and favorable safety profile, it is frequently used in naturally oriented and dermatologically formulated products where a combination of

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effective yet gentle exfoliation and high comfort during use is required.

Physicochemical properties: The melting point of jojoba pearls ranges between 67 and 71 °C, with an average value of approximately 70 °C. For this reason it is important that the processing temperature during formulation remains below 70 °C. In this way the pearls retain their solid form and spherical structure. Under properly controlled temperatures they remain stable and do not soften. No deformation occurs during production or during storage of the finished product. Such thermal stability allows safe use of the pearls in emulsions and other cosmetic systems. Their addition is recommended during the cooling phase or at temperatures that do not exceed the recommended limit. This ensures that the pearls maintain their exfoliating function and uniform performance in the final formulation. The particle size of the pearls is precisely controlled and represents one of the key characteristics of this ingredient. The pearls are medium-sized and uniformly rounded, with a diameter approximately between 425 and 850 microns. This granulometry allows the pearls to be clearly felt on the skin without producing a rough or aggressive effect. The action is even and predictable, without discomfort during massage. The combination of controlled particle size, spherical shape and wax-like structure makes these jojoba pearls a reliable choice for scrubs, cleansing products and treatments intended for regular use.

Benefits:

- Gently remove dead skin cells without scratching.
- Provide a uniform and controlled exfoliating effect.
- Smooth spherical surface reduces the risk of irritation.
- Suitable for regular use on the face and body.
- Do not clog pores and do not leave a heavy feeling on the skin.
- Improve skin smoothness and softness after rinsing.
- Retain their shape during application and provide predictable results.
- Stable color contributes to an attractive product appearance.
- Provide a pleasant massage experience without a harsh effect.

Method of use: Jojoba pearls are incorporated into formulations during the final stage of product manufacturing. They are added after the emulsion has formed, during the cooling phase at temperatures below 70 °C in order to preserve their solid form and spherical structure. Before addition they should be evenly dispersed into the product

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base with gentle mixing to ensure uniform distribution without damaging the pearls. In products for gentle cleansing and mild facial exfoliation they are typically used at concentrations of about 0.5–2%, providing a subtle and pleasant exfoliating effect suitable for regular use. In body scrub products concentrations are usually higher, typically within the range of 2–5% to achieve a more pronounced mechanical effect. In shower gels, soaps and rinse-off products they are used in moderate quantities, most commonly between 1 and 3%, depending on the desired exfoliation intensity. Due to their smooth surface and good tolerability, jojoba pearls may also be used in formulations intended for sensitive areas such as the area around the eyes, when the lowest recommended concentrations are applied. By selecting the appropriate concentration and base formulation, it is possible to precisely control the intensity of exfoliation and create a stable, safe and pleasant product for the end user.

Natural or synthetic ingredient: Hydrogenated jojoba oil is considered a natural cosmetic ingredient. The base raw material is natural jojoba oil, while the ingredient itself is obtained through hydrogenation, a process that changes the physical state of the oil from liquid to solid without altering its fundamental lipid structure. For this reason it is regarded in professional and regulatory contexts as a naturally derived raw material with controlled and consistent properties.