

TECHNICAL DATA SHEET

Product Name: Black Jojoba Pearls (20/40)

INCI name: Hydrogenated Jojoba Oil

CAS: 92457-12-0

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 black 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 maintaining chemical affinity with the natural lipids of the skin. The pearls are spherical in shape and have a uniform particle size, which ensures controlled and gentle mechanical action without sharp edges that could irritate the skin. The black color has only an aesthetic and visual function and does not affect the safety or performance of the ingredient. In cosmetic formulations this ingredient is primarily used as a mild 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 fracture into sharp fragments but retain their shape, making 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 conditioner. Its lipid structure contributes to a feeling of softness and reduces dryness that may occur after cleansing or exfoliation. Due to its compatibility with skin lipids, it does not clog pores and integrates well into formulations for facial and body care, as well as into products intended for sensitive areas such as the area around the eyes when used in appropriate particle size and concentration. This ingredient is stable within the wide temperature and pH range typical for cosmetic products and does not react with other components of the formulation. Due to its plant origin and favorable safety profile, it is often used in naturally oriented and dermatologically formulated products where a combination of effective yet gentle exfoliation and high sensory comfort is required.

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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, during formulation it is important that the processing temperature remains below 70 °C. Under such conditions the pearls retain their solid form and spherical structure. When temperature is properly controlled they remain stable and do not soften. No deformation occurs during production or storage of the finished product. This thermal stability allows safe incorporation of the pearls into emulsions and other cosmetic systems. It is recommended to add them during the cooling phase or at temperatures that do not exceed the recommended limit. This ensures that the pearls retain 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 of approximately 425–850 microns. Such granulation allows the pearls to be clearly perceived on the skin without producing a harsh or aggressive effect. The exfoliation remains 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 the skin.
- 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.
- Maintain their shape during use and provide predictable performance.
- Stable color contributes to the attractive appearance of the product.
- Provide a pleasant massage experience without a harsh effect.

Method of use: Jojoba pearls are incorporated into the formulation during the final stage of product preparation. They are added after the emulsion has been formed, during the cooling phase, at temperatures below 70 °C in order to maintain their solid form and spherical structure. Before addition they should be evenly dispersed into the product base with gentle mixing to ensure uniform distribution without damaging the pearls.

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In facial cleansing products and mild facial scrubs they are typically used at concentrations of approximately 0.5–2%, providing a subtle exfoliating effect suitable for regular use. In body scrubs higher concentrations are generally used, typically between 2–5%, to achieve a more pronounced mechanical effect. In shower gels, soaps and rinse-off products they are used in moderate amounts, most commonly between 1–3%, depending on the desired exfoliation intensity. Due to their smooth surface and good skin tolerance, jojoba pearls can also be used in formulations intended for sensitive areas such as the area around the eyes, when applied at the lowest recommended concentrations. By selecting the appropriate concentration and base formulation it is possible to precisely control exfoliation intensity and obtain 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 technical and regulatory contexts as a naturally derived raw material with controlled and consistent properties.

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