

TECHNICAL DATA SHEET

Product Name: Blue Jojoba Pearls (40/60)

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 blue 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, ensuring controlled and gentle mechanical action without sharp edges that could irritate the skin. The blue 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 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 conditioner. Its lipid structure contributes to a feeling of softness and reduces dryness that often occurs 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 effective yet gentle exfoliation and high sensory comfort are required.

Disclaimer: The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

TECHNICAL DATA SHEET

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. Under these 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 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 of approximately 250–425 microns. Such granulation allows the pearls to be clearly perceived on the skin without producing a rough or aggressive effect. The exfoliating action remains even and predictable, without discomfort during massage.

Benefits:

- Gently remove dead skin cells without scratching the skin.
- Provide a uniform and controlled exfoliating effect.
- The 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. 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

Disclaimer: The details provided here are specific to the identified material and may not remain accurate if that material is combined with other substances or used in different processes. The information presented is, to the best of the company's knowledge, considered precise and trustworthy as of the date mentioned. However, the company does not make any explicit or implied assurance, guarantee, or claim regarding the information's precision, trustworthiness, or comprehensiveness, and will not be held accountable for any losses, damages, or costs, whether direct or indirect, that arise from its use. Users are encouraged to independently verify the appropriateness and thoroughness of this information for their specific purposes.

TECHNICAL DATA SHEET

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.

Comparative advantages: Blue jojoba pearls with a particle size of 40/60 mesh represent finer exfoliating particles with an approximate size range of 250–425 µm. Compared with larger 20/40 mesh granulations, this particle size provides an optimal balance between effective removal of dead skin cells and gentleness toward the skin. Thanks to the finer particle size, these pearls allow more delicate and uniform mechanical exfoliation, which makes them particularly suitable for formulations intended for facial skin. The finer granulation also contributes to a more pleasant tactile sensation during product application, as skin massage produces a smoother and more uniform feel.

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.