

TECHNICAL DATA SHEET

Product Name: White Beeswax, 100% Natural

INCI Name: Bees wax

CAS: 8012-89-3

Synonyms: Beeswax cera alba (white)

Functional Category: Viscosity modifier, humectant, mild emulsifier

Description: Beeswax is a natural substance produced by bees, primarily for building their honeycombs. It has a pleasant honey-like scent and varies in color from yellow to golden brown, although there are also white variants due to bleaching or natural filtering. In solid form at room temperature, beeswax has a smooth, creamy texture and a melting point between 62-64°C (143-147°F). It is insoluble in water but soluble in most organic solvents. In cosmetics, beeswax acts as a moisturizing agent and emollient. It is also used as a thickening agent, adding density and firmness to products like balms and ointments, while improving the texture and stability of emulsions. Its natural antibacterial properties make it a useful preservative, extending the shelf life of various cosmetic products. Beeswax also soothes and heals dry or irritated skin, which is why it is often found in salves and healing balms. Besides cosmetics, beeswax is popular in candle making.

Benefits:

- **Emollient Properties:** Beeswax acts as an excellent emollient, helping to soften and moisturize the skin. It forms a protective barrier on the skin's surface, preventing moisture loss and maintaining skin hydration.
- **Skin Protection:** By creating a protective layer on the skin, beeswax shields it from environmental factors like harsh weather, pollutants, and irritants. Individual sensitivity to beeswax can exist, so it's always advisable to test a new product containing beeswax on a small skin area.
- **Soothing Effect:** Beeswax has soothing properties that can help calm and relieve irritated or inflamed skin. It can be beneficial for conditions such as dryness, itching, and minor skin irritations.
- **Improves Product Texture:** Beeswax contributes to the texture and consistency

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of cosmetic products. It helps stabilize and thicken formulations, giving them a smooth and luxurious feel.

- **Natural Preservative:** Beeswax has natural preservative properties that can extend the shelf life of cosmetic products by preventing the growth of bacteria and fungi.

- **Non-comedogenic:** Beeswax is non-comedogenic, meaning it does not clog pores. This makes it suitable for use in skincare products, including those intended for acne-prone or sensitive skin.

- **Versatility:** Beeswax is compatible with a wide range of other ingredients, making it a versatile component in cosmetic formulations. It can be found in various products such as lip balms, lotions, creams, ointments, and hair care products.

Usage: When used in cosmetic formulations, beeswax is first melted and added during the melting phase along with other fats and oils. Afterward, the mixture is emulsified with the aqueous phase, if present, to create a stable emulsion. The exact concentration of beeswax can vary depending on specific needs and desired characteristics of the final product. In creams and lotions, beeswax is used as a thickener and emulsifier, contributing to the formation of a stable emulsion that is easy to apply to the skin. It is typically used in concentrations ranging from 2% to 10%, depending on the desired consistency and type of emulsion. The wax contributes to skin hydration by forming a protective film that prevents moisture loss. In lip balms, beeswax provides the necessary firmness and texture, making the balm easy to apply while protecting the lips from drying out. Beeswax concentrations in lip balms typically range from 10% to 25%, ensuring an optimal balance between hardness and softness. In ointments and skin salves, beeswax is used for its soothing and protective properties. These products often contain beeswax in concentrations ranging from 5% to 15%, helping to heal and protect dry, cracked, or irritated skin. The wax creates a barrier on the skin that retains moisture and allows active ingredients to work more effectively. In candle making, beeswax is used for its ability to burn with a clean, bright flame, without harmful emissions. Although this is not directly related to cosmetics, it is important to note that beeswax is an environmentally friendly choice for candles. For external use only.

Animal Testing: This substance has not been tested on animals

GMO: Not GMO

Vegan: The wax is a product of bees

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