

TECHNICAL DATA SHEET

Product Name: Ozokerite

INCI Name: Ozokerite

CAS: 64742-33-2

Synonyms: Ceresin, ozocerite, 8001-75-0, 232-290-1, Ceresin wax, Ozokerite wax, White ozokerite wax, EARTH WAX

Chemical Class: Wax

Functional Category: Viscosity Modifier, Emulsion Stabilizer

Description: Ozokerite wax is a natural mineral wax obtained by distillation of natural hydrocarbons. It has exceptional properties that make it popular in cosmetics and personal care products. Its chemical structure, consisting of a mixture of saturated and unsaturated hydrocarbons, allows it to be very stable and resistant to oxidation. Due to its high melting point, ozokerite wax is ideal for products that need to remain solid at higher temperatures. Additionally, its ability to thicken and stabilize formulations provides products with a smooth and uniform texture, which is particularly useful in creams, lotions, lipsticks, and balms. Ozokerite forms a protective layer on the skin, helping to retain moisture while providing a smooth and non-greasy feel. In hair styling products, ozokerite wax provides the necessary firmness and control, allowing for the creation of long-lasting hairstyles without a heavy feel. In deodorants and antiperspirants, its ability to stabilize solid formulations contributes to easy application and long-lasting protection. Although it comes from the petroleum industry, which may raise certain ecological and ethical concerns, ozokerite wax remains a key ingredient in many cosmetic products due to its versatility and exceptional characteristics that enhance the quality and performance of finished products. It appears in the form of white pellets, odorless. It is lighter than water and insoluble in it but dissolves easily in gasoline, alcohol, benzene, chloroform, and turpentine oil. It is soluble in warm oils and other melted waxes. Purified, colorless, or yellowish ozokerite is called ceresin.

Benefits:

- **Texture and Stability:** Ozokerite wax helps thicken and stabilize cosmetic formu-

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lations. It adds firmness to creams, lotions, and balms, making them easier to apply and longer-lasting. Its high melting point ensures that products retain their form and texture even at higher temperatures.

- **Forms Stable Emulsions:** In formulations containing water and oil, ozokerite wax helps form stable emulsions. This is especially important for creams and lotions, where the oil phase must be evenly distributed throughout the water phase to achieve a smooth and uniform texture.

- **Forms a Protective Layer:** When applied to the skin, ozokerite wax forms a protective layer that helps retain moisture. This layer acts as a barrier, preventing water evaporation from the skin, which is crucial for hydration and protection against external influences.

- **Improves Skin Feel:** Ozokerite wax contributes to a smooth and pleasant feel of the product on the skin. It helps reduce the greasy feel, which is particularly useful in formulations for oily and combination skin.

- **Aids in Product Shaping:** In products like lipsticks and balms, ozokerite wax ensures that the product retains its shape and structure, making application easier and allowing for precise use. Its firmness allows for even application without breaking or losing shape.

- **Enhances Color and Fragrance Stability:** Ozokerite wax helps stabilize colors and fragrances in cosmetic formulations. Its ability to form a solid matrix helps retain pigment and fragrance components, ensuring that the product maintains its appearance and scent over time.

Usage Instructions: Ozokerite wax is used in various cosmetic products, and its use and recommended concentrations vary depending on the type of product and desired properties. In formulations, ozokerite wax is usually heated to melt and evenly mixed with other ingredients, ensuring homogeneous mixing. For products such as lipsticks and balms, ozokerite wax is often used in concentrations of 5% to 15%. These concentrations allow the products to retain firmness and shape while providing a smooth texture and even application. The wax is heated together with oils and butters, creating a homogeneous mixture that solidifies into a firm product upon cooling. In creams and lotions, ozokerite wax is used in lower concentrations, usually between 1% and 5%. It is added during the heating phase of the oil phase, where it helps stabilize the emulsion and improve the product's texture. When ozokerite wax is melted and mixed with other oils and emulsifiers, it forms a stable base that, after adding the water phase and cooling, results in a smooth and creamy texture. For hair styling products, such as gels and

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waxes, ozokerite wax is used in concentrations of 2% to 10%, depending on the desired level of firmness and control. The wax is added during the heating phase, together with other film-forming agents and oils, creating a product that provides long-lasting control and shine without a heavy or greasy feel. In deodorants and antiperspirants, ozokerite wax helps stabilize solid formulations. It is used in concentrations of 3% to 8% and is added during the heating phase with other waxes and oils. This mixture is then poured into molds and cooled, forming solid sticks that are easy to apply and effective in providing long-lasting protection.

Animal Testing: The substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain animal-derived components

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