

# 6013 ORGANIC CANDELILLA WAX

## TECHNICAL DATA SPECIFICATION

### Family Description

INCI NAME: Euphorbia Cerifera (Candelilla) Wax

Organic Candelilla Wax is a high purity wax made from the wild Candelilla plant (Euphorbia Cerifera). Typical chemical composition of wax: high hydrocarbon content (linear n-alkanes, mainly hentriacontane, C31, around 50-57%) and a low amount of volatile compounds (short carbon chain n-alkanes, ketones, aldehydes, aromatic alcohols). Its resin content can be between 12-15% by weight, which contributes to its adhesive properties. Organic Candelilla Wax also has protective properties, high chemical stability, high melting point, impermeability, dielectric properties, and gloss.

### Product Description.

6013 Organic Candelilla Wax is a wax subjected to a filtering and bleaching process, presenting a light yellow colour as a typical value. It differs from the others by using natural resources responsibly and uses manufacturing and processing practices that are clean and respectful of human health and the environment.

6013 Organic Candelilla Wax has an average spherical granule size of 425-850 microns. This particle size improves the wax melting process, reducing time and space. In addition, its spherical shape and its great hardness make it ideal to use as an exfoliant in its solid state incorporated in formulations such as bath gels, body shampoos, bar soaps and butters.

6013 Organic Candelilla Wax is vegetable origin, it imparts an excellent barrier against moisture, protection, and consistency.

### Compatibility.

6013 Organic Candelilla Wax is compatible with a wide range of waxes, it can be mixed with: All vegetable and animal waxes. Mineral waxes such as montana, paraffins and microcrystalline. Fatty acids and hydrogenated waxes. Synthetic waxes such as polyethylene, oxidized polyethylene, polypropylene, esters. Homopolymers such as low-density polyethylene. Copolymers such as ethylene-vinyl acetate (EVA). Natural resins such as pitches and shellac. It is incompatible

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Company Registered in England and Wales No. 138140

with silicone oils, but highly compatible with vegetable and mineral oils. It is insoluble in water, but highly soluble in acetone, chloroform, benzene, and other organic solvents.

#### Physical - Chemical properties.

PROPERTY	UNIT	METHOD	SPECIFICATION
MELTING POINT	°C	USP 741 CLASS II	69 - 73
ACID NUMBER	mg KOH / g	USP 401	12 - 23
ESTER NUMBER	mg KOH / g	USP 401	31 - 43
SAPONIFICATION	mg KOH / g	USP 401	43 - 66
COLOUR		Gardner	9 - 12
PENETRATION *Typical Value 0	dmm	ASTM D-1321	0-2

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#### Presentation and Handling.

It is recommended to store the product at temperatures that do not exceed 50 ° C to avoid caking of the product. Do not leave the material unused for more than 2 months as the natural tendency is to agglomerate, modifying the particle size of the presentation. The colour tone of the material may vary. Due to the nature of the material the intensity of the characteristic odour may vary. Its handling does not require special conditions or precautions.

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