



Wax

Overview

About Us

Cirebelle is an innovation driven manufacturing company offering integrated solutions and specialist services to a diverse range of markets. Founded in 2001, Cirebelle has become a leading manufacturer recognised by local and international customers for high quality chemical solutions. Cirebelle strives for excellence, focuses on research and innovation and believes in the value of science and technology.

About Our Wax Range

Cirebelle's waxes are uniquely derived from both natural resources as well as through the Fischer-Tropsch (FT) natural gas-to-liquid process and form part of our CireWax® and CireNat® range of waxes.

Our waxes undergo multiple processes such as distillation, purification and modification to render the waxes of exceptional purity. Continuous and thorough quality control is maintained throughout the manufacturing process to ensure consistent, high quality waxes for the cosmetics and toiletries market.

Our range of Waxes consists of the following:

CireNat® Wax
CireWax® Classic Wax



About CireNat® Wax

Our natural wax offering, called CireNat Wax, is uniquely derived from natural plant origins and is readily biodegradable. This unique offering, includes sustainably sourced wax from both Carnauba and Rice Bran. These natural waxes can be used as a thickener and has emollient properties. They also work well as a binding, coating, or gelling agent.

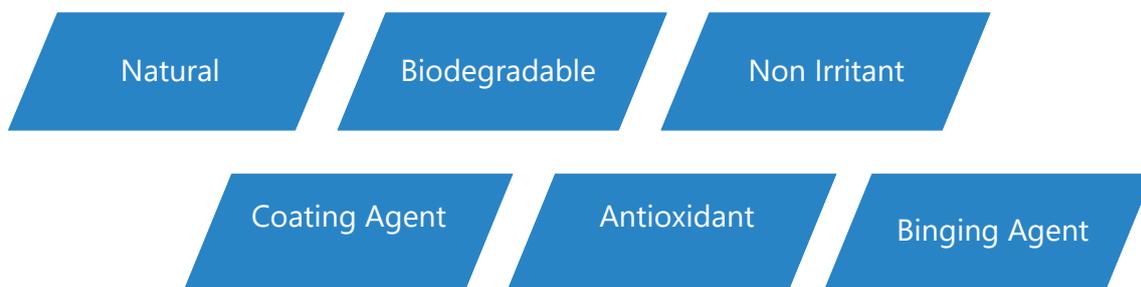
CireNat® Rice Bran Wax

CireNat® Rice Bran Wax is a by-product of Rice Bran Oil production. It is a natural hard, crystalline vegetable wax that is uniquely derived from rice husks. It has a high melt point of 79 - 85°C, low acid value and is often used as a substitute for other natural waxes.

Chemical and Physical Properties

It consists of very long chain saturated C46-C62 esters, also known as Policosanols, from C20-C36 fatty alcohols and C20-C26 fatty acids. Rice Bran Wax naturally contains Phospholipids which act as binding agents, Phytosterols (healthy plant sterols) and Squalane which is moisturising and has antioxidant properties.

Features & Benefits



Applications

Cirebelle's Rice Bran wax acts as a thickener, binding agent, coating and gelling agent, thus, it can be used in a wide variety of cosmetic applications.

CireNat® Rice Bran Wax can be used in the following personal care applications:

- Creams and lotions
- Lip care
- Sun care products
- Mascara

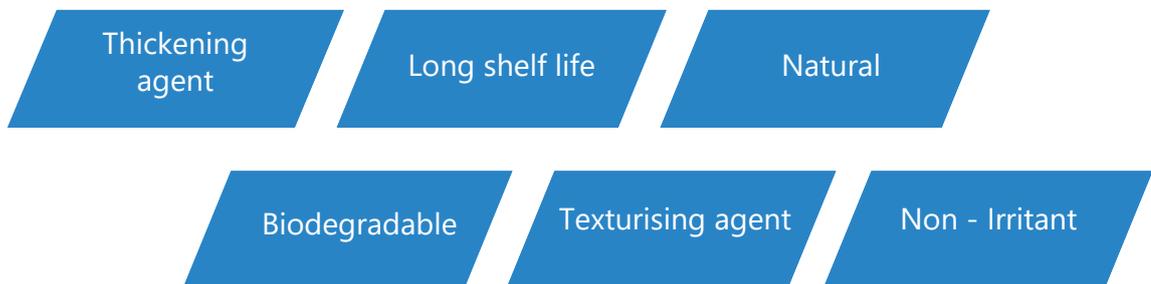
CireNat® Canauba Wax

Cirebelle utilises a wide variety of natural waxes to create leading products that meet the needs of the market. CireNat® Canauba wax is one such product. It is sustainably sourced from the leaves of the canauba tree and is readily biodegradable.

Chemical and Physical Properties

Canauba wax is highly regarded because of its high melting point of 81 - 86°C. It is noted as one of the hardest natural waxes available and is composed of wax esters (85%), free fatty acids, fatty alcohols & resins (15%).

Features & Benefits



Applications

Due to its high melting point Carnauba wax is ideal for decorative cosmetics and other formulas where a high melting point is required. CireNat® Carnauba Wax can be used as a thickener and has emollient properties.

CireNat® Carnauba Wax can be used in the following personal care applications:

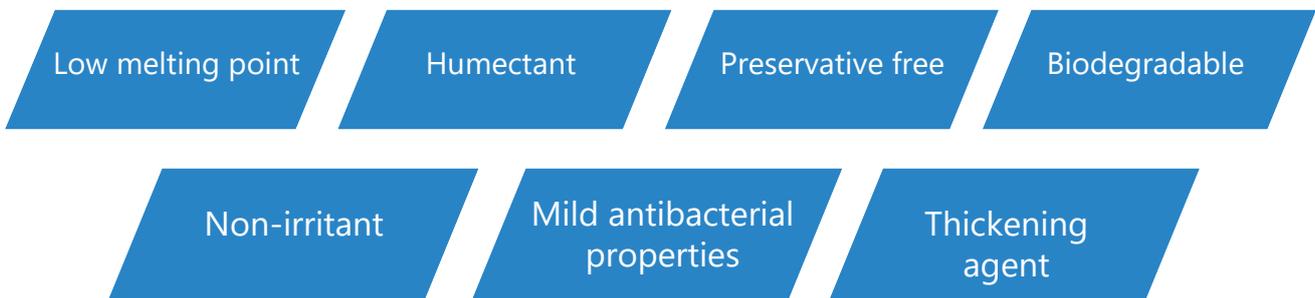
- Lip care
- Facial products
- Body care
- Foot care
- Bath care

CireNat® African Beeswax

Beeswax is widely used by the cosmetics industry, in everything from lotions, body creams to lip balms.

Our African beeswax, which also forms part of our natural offering, is a highly sought-after emulsifier and humectant. When applied to the skin, our beeswax forms a protective barrier, protecting the skin for various environmental harms, while moisturizing the skin.

Features & Benefits



Applications

- Eye-shadows
- Eyeliners

Our range of African beeswax can be also used in applications such as:

- Candles
- Shoe and furniture polish
- Food applications
- Pharmaceutical products

Blends

Custom wax blends are Cirebelle's specialty. We have the capacity to manufacture both standard and custom wax blends and offer a range of emulsions and blends that are designed to help customers in various industries to take advantage of the unique properties of wax.

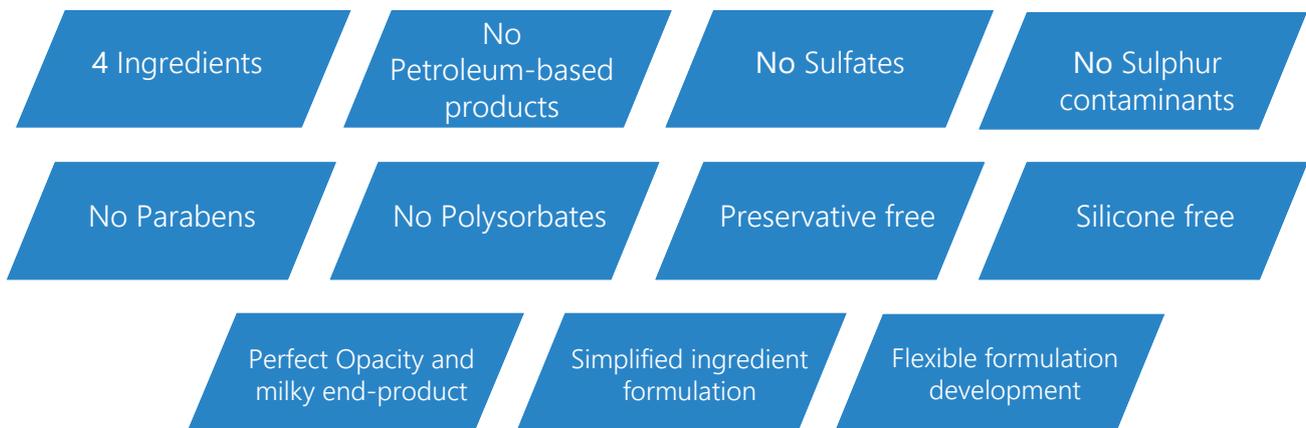
At Cirebelle, we work closely with our customers to ensure that we meet their requirements and create exactly what they need. Whether it's creating a new blend or matching an existing one, Cirebelle collaborates closely with the customer to formulate a high quality custom wax blend that performs in a specific way and produces superior results.

CireBase LB55

CireBase is a specially formulated wax blend aimed at creating base formulations for a variety of applications.

Water is added at a low temperature to the CireBase LB55 in order to prepare a lotion base. Customers can then add other ingredients, such as fragrance and actives to create a unique product.

Features & Benefits



Applications

All Skincare, including baby, face and body care:

- Lotions, creams and aqueous cream
- Sun care products



About CireWax® Classic Wax

Cirebelle Classic waxes are uniquely derived by means of the Fischer–Tropsch (FT) natural gas-to-liquid process. The Fischer–Tropsch process refers to the collection of chemical reactions which converts a mixture of carbon monoxide and hydrogen into liquid hydrocarbons. These reactions occur in the presence of metal catalysts, typically at temperatures of 150–300 °C (302–572 °F) and pressures of one to several tens of atmospheres. Distillation, purification and modification then render these waxes of exceptional purity. Continuous and thorough quality control is maintained throughout the manufacturing process to ensure consistent, high-quality waxes for the cosmetics and toiletries market.

Chemical and Physical Properties

Cirebelle waxes are long-chain, unbranched hydrocarbons with the following chemical structure: $\text{CH}_3-(\text{CH}_2)_n-\text{CH}_3$. The molecular weights of the individual waxes range from 300 to 1000 Dalton. The melting point increases with increasing molecular weight and cover the range from 40°C to 100°C. The waxes are pure white and not translucent, having a fine crystalline structure.

Overview of CireWax® Classic Wax Range

CB505

Possesses very low melting point – just above body temperature. In creams and lotions, it offers a unique skin feel, excellent spreading and good film forming properties. A good product for use in skin care and hair care

CB305

Assists in ease of manufacture (no homogenization is required). Also, an ideal emollient for skin – body -care. In sun-care it imparts water resistance.

CB303

Highly economical wax used in a variety of applications ranging from skin – and lip-care (lip balms) to hair care. In o/w emulsions it is used effectively to improve the gloss and whiteness of the emulsion, in addition to providing an elegant skin feel

CB108

High melting wax (80 °C). Offering exceptional benefits to skin – lip-care products. Offering exceptional benefits to skincare products. Imparting temperature stability, strength and hardness.

CB109L

High melting wax (90°C). Tasteless and odourless. Very good for lip product applications. Provides hardness and strength to stick formulations without imparting a waxy feel or taste on application.

Features of CireWax® Classic Wax

The inert nature of Fischer-Tropsch waxes ensures the absence of side reactions with other ingredients. Due to the nature of the manufacturing process, the purity of our Cirebelle waxes is exceptionally high.

Features & Benefits

Long shelf-life

No Sulphur

No impurities

No aromatic
compounds

Hypo-allergenic

High purity

Chemically inert

Non-waxy feel

Applications

CireWaxes can be used in the following personal care applications:

- Skincare products
- Lip care
- Lotions and creams
- Footcare
- Baby care products





Contact Us:

 +27 11 473 1373

 sales@cirebelle.com

 www.cirebelle.com

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