CELEBRATING THE RICH HISTORY OF WAXES
WHAT'S INSIDE:

2-3 – HERITAGE
4-5 – INNOVATION
6-7 – WORLD RESOURCES
8-9 – NATURAL/ORGANIC
10-11 – SILICONYL WAXES
12-13 – CUSTOM BLENDS
14-15 – EMULSIFYING WAXES
16-17 – KESTER WAXES
18-19 – MILKS
20-41 – WAX SPECIFICATIONS
42 – WAX PROPERTIES
OUR HISTORY OF TRADITION AND INNOVATION

Founded in 1852 as a family business, Koster Keunen has evolved into the world’s leading processor, refiner and marketer of natural waxes. From the early days of sun bleaching beeswax for the candle industry, we now specialize in processing and formulating quality waxes for cosmetics, pharmaceutical, food, coatings, and various other technical industries worldwide.

For over 150 years we have sought perfection, constantly introducing new and innovative processes and waxes, while investing in experienced, knowledgeable people and the best equipment to help meet this goal. As a family business we believe very strongly in the need for developing superior quality products, and supporting our customers with excellent service, throughout the formulation and marketing processes.

From our two facilities, in the USA and Holland, we offer a huge range of natural waxes, synthetic waxes and wax derivatives, enabling our customers to produce thousands of products that look, feel and work superbly.
UNIQUELY KOSTER KEUNEN

Our greatest strength is the experience and scientific expertise we have fostered for the development of new and innovative products. We were, for example, the first natural wax company to use a Sandvik Pastillator for prilling beeswax, and we introduced the first commercially available P.G. beeswax esters.

This forward thinking mentality led to the development of synthetic alternatives to natural plant waxes, with our chemists developing natural wax derivatives such as Siliconyl Beeswax, Self-Emulsifying Carnauba, and PEG-8 Beeswax, among others.

Most recently, we became the first company to introduce sustainable waxes that mimic the physical and chemical properties of non-renewable petrochemical and mineral based raw materials – Kester Waxes. We also have on offer a direct 1:1 replacement for oil based petrolatum – our Naturalatum, as well as an all-natural non-animal lanolin replacement.

Our customers have constantly changing needs and requirements, and with our extensive knowledge of waxes and scientific experience in developing performance additives, we work closely with R&D departments in the development of unique formulas to create products with strong added value properties.
A WORLD OF NATURAL AND ORGANIC WAXES

Nature is wonderful at perfecting the art of wax ‘production’. It is our belief that the only way to produce the finest quality waxes is to start with the best resources available, which is why we work diligently with our global suppliers and partners, whether in South America, throughout Asia, or across Africa to source the purest raw materials.

Nature’s unique combination of surface protection, breathing and water balance, allows us to use natural fruit and vegetable waxes with supreme confidence, knowing they can be physically processed with no chemical reactions or solvent extractions.

- We were the first USA natural wax company to obtain the USDA Organic Handling Certificate
- We partnered with USDA to utilize agricultural by-products, which led to the development of our Orange Peel Wax.
- We have an extensive line of certified natural waxes (NPA – Natural Products Association)
Truly organic wax guarantees the highest quality cosmetic and food ingredients, and that is what we strive to deliver for our customers. Koster Keunen’s commitment to this philosophy was cemented by our becoming the first natural wax company in the USA to be awarded a USDA Organic Handling Certificate.

Our natural and organic waxes (Beeswax, Carnauba, and Organic Emulsifier) are integral in providing medications with special coatings, chocolates with a quality protective sheen, and help lipsticks and glosses retain a superior luster and effectiveness. We ensure our customers can produce products with unique quality, performance and feel characteristics, whatever their end use.

We look at natural in many ways; Bee’s Milk and Carnauba Milk—Natural, for example, allow a formulator to utilize the properties of Beeswax and Carnauba Wax without having to apply heat to the formulation, allowing cold formulation. This provides a way to incorporate natural Beeswax into many applications, since processing requires no more energy than measuring, pouring, and mixing.

**TYPICAL APPLICATIONS INCLUDE:** Skin Care, Hair Care, Creams, Pump Products, Aerosol Products, Ointments, Pharmaceuticals, Leather, Shoe, Automotive & Furniture Polishes, Paint Products, Textile & Wood Coatings

**NATURAL WAXES:** Beeswax, Bee’s Milk Natural #593 Carnauba, Carnauba Milk Natural #576, Candelilla, Behenyl Beeswax, Cera Bellina, Cocoa Butter, Vegetable Wax Natural, Kester Wax K-24, Kester Wax K-48, Kester Wax K-56, Kester Wax K-60P, Kester Wax K-62, Kester Wax K-72, Orange Peel Wax, Rice Bran Wax, NaturalAtum, Sunflower Wax
ORGANIC WAXES: 100% Organic Beeswax, Organic Beeswax, Powdered Organic Beeswax, Organic Carnauba Wax, Powdered Organic Carnauba Wax, Organic Emulsifying Wax
SILICONYL WAXES

Siliconyl Wax is a very convenient way to incorporate silicone into formulations. The silicone ester of Beeswax and Candelilla, for example, eliminates the tendency of blooming in silicone oils, thereby increasing the stability of formulations. Siliconyl Beeswax reduces the tackiness of these ingredients, and imparts a silky feel to the skin, and it is highly compatible with most other cosmetic ingredients.

Siliconyl Candelilla reduces the tacky feel of silicone oils, and imparts a silky feel to the skin. It also has sunscreen enhancing properties.

Siliconyl Carnauba Milk is a stable <500nm dispersion with unique formulating advantages, coupling the properties of Carnauba Wax with Silicones to produce a multifunctional performance additive designed for cold formulating. This Milk performs as an excellent film former.

Siliconyl IBT has been designed to produce a more radiant white appearance, thick texture, easy spreading, thin film forming, luxurious feeling emulsion. It serves as a high performing cosmetic emulsifier, barrier and moisturizer that can enhance your product’s efficacy.

Our Siliconyl Wax line allows many unique formulating advantages including:
- Altering slip properties
- Improving film forming properties
- Improve stability
- Improve rheology
- Improve gloss
- Inhibition of crystallization
- Sunscreen enhancers


WAXES: Siliconyl Polyethylene, Siliconyl Polyethylene PC-38, Siliconyl Candelilla, Siliconyl Beeswax, Siliconyl Carnauba, Siliconyl IBT
CUSTOM BLENDS

Koster Keunen has the capability of manufacturing custom wax blends, helping in the development of raw materials and finished products, improving performance while reducing handling, assisting in inventory control, and providing cost effective offsets in various industries and applications.

Our customized blends of Natural and Petroleum Wax blends are available in the following formats:

- Pastilles
- Granules
- Slabs
- Bulk (Jumbo bags, Bulk Liquid) batch sizes 5,000-20,000kgs
- Liquid in ISO Containers or full tanker trucks

We manufacture under GMP conditions with an in-house quality control laboratory that is second-to-none. We are Certified Kosher and a Certified Organic Processor with a long history of providing these services. Please contact us to discuss your specific requirements.

TYPICAL APPLICATIONS INCLUDE: Our services are used to convert a bulk liquid into a pastille, granule, or slab. This can be used in general industry for coatings & blends, food, dental, or cosmetics.
EMULSIFYING WAXES

We have emulsifiers for oil/water and water/oil emulsions, with natural and organic options available as well as ethoxylated, quantanized, siliconized and polyglycerols. All products are non-tallow derived.

Our NF Emulsifying Wax, for example, is derived from plant based fatty alcohols, while our Emulsifying Wax 14 is a Polyethylene Glycol derivative of Stearic Acid. They are self-emulsifying, highly stable in acidic and basic media, and highly compatible with most cosmetic and pharmaceutical ingredients.

These emulsifiers offer a cost effective raw material that can enhance product stability and provide the textures and consistencies that formulators want. Special blends can be made to incorporate other ingredients into an Emulsifying Wax to produce a multi-functional wax offering added conditioning, stabilizing, or sunscreen and UV absorbing properties into personal care products.

The general benefits of emulsifying waxes include: adding emollience, improving emulsion stability, skin feel and film forming properties.

**TYPICAL APPLICATIONS INCLUDE:** Creams, Lotions, Shampoos, Conditioners, Pomades, Sunscreens, Pharmaceutical Ointments, Salves, Skin Protection

**WAXES:** Permulin D, NF Emulsifying Wax, Kostol IBT, Kostol IBT 50 Siliconyl IBT, Kostol Natural E, Kostol BAQ, Kostol PGP, Kostol TBP Organic Emulsifying Wax, PEG-12 Carnauba, Self Emulsifying Synthetic Carnauba, Carnauba EC-80
KOSTER WAXES (ESTER WAXES
BY KOSTER KEUNEN)

We have a unique and dedicated line of sustainable waxes that mimic the physical and chemical properties of non-renewable petrochemical and mineral-based raw materials. Our natural Kester Waxes K-24 through K-72 (melt points between 24°C and 72°C) are vegetable derived natural products as recognized by the Natural Products Association (NPA).

Kester Waxes are long chain natural synthetic ester waxes prepared by the esterification of natural fatty acids with synthetic fatty alcohols. The many different Kester Waxes enable the formulator to choose between waxes of different melt points, harness, and gelling capability to satisfy many different applications.

The primary advantages of the Kester Waxes are their excellent oil gelling and oil binding capabilities, and their broad compatibility with lipids used for both cosmetic and industrial manufacturing. These waxes can be used to replace paraffins and other petroleum waxes like, microcrystalline waxes, ceresins, and ozokerites while improving efficacy and product performance. Ask to see the extensive gelling studies that have been completed on our lines of waxes. These studies help to pair an oil and wax to create the desired viscosity, texture, and feel.

TYPICAL APPLICATIONS INCLUDE: Creams, Lotions, Gels, Lipsticks, Antiperspirants and Ointments.

Koster Keunen Milks are innovative, highly stable dispersions of wax in a water base. Our Milks allow a formulator to utilize the desirable natural properties of the wax in cold formulating without having to apply heat to the formulation. This creates many new application advantages and possibilities since processing requires no more energy than measuring, pouring, and then mixing.

Our Milks’ excellent film forming abilities specifically improve the sensory and protective properties of sun, hair and skin care products. The lipid composition in Bee’s Milk closely mimics the natural lipid composition of the skin, thus copying the skin’s own natural secretions, making Bee’s Milk ‘nature’s emollient’. Generally, the enhanced, superior quality of the film formed improves overall performance across many product categories.

Siliconyl Carnauba Milk is a stable <500nm dispersion with unique formulating advantages, coupling the properties of Carnauba Wax with Silicones to produce a multifunctional performance additive designed for cold formulating. This Milk performs as a film former, functioning at low usage levels between 2 -10%; improving barrier properties, water repellency, and slip, while diminishing surface imperfections.

We now offer a Bee’s Milk with a natural preservative system, a paraben free preservative system, and a siliconyl polyethylene milk.

**Key Benefits:**
- Enabling cold formulation
- Reduced process and energy costs
- Extraordinary film forming properties
- Uniform particle size

**TYPICAL APPLICATIONS INCLUDE:** Sun Care, Skin Care, Hair Care, Shampoos, Conditioners, Shave Creams, Pump Products, Aerosol Products, Leather, Shoe, Automotive, Furniture Polishes, Paint Products, Textile and Wood Coatings.

**WAXES:** Bee’s Milk, Bee’s milk Paraben Free, Carnauba Milk Carnauba Milk Paraben Free, Carnauba Milk Natural #576 Bee’s Milk Natural #593
**Bayberry Wax**

**Wax # 188P**

Viscosity Modifier

**DESCRIPTION:**
Bayberry Wax is obtained from the berry of the shrub Myrica Cerifera. The wax coating on the berries is removed from the fruit by boiling in water. The wax floats to the surface, is skimmed off and strained. This all natural wax comes from shrubs which grow in Central and South America.

Bayberry Wax predominantly consists of triglycerides with a carbon chain length of C16’s. It is fairly hard, somewhat brittle and is fatty to the touch.

**APPLICATIONS:**
Skin Care Formulations, Sun Care, Shampoos, Conditioners, Sprays, Pumps, Aerosols, Pre-moistened Towelettes, Leather

**ADVANTAGES:**
Bayberry Wax is compatible with all vegetable, animal and mineral waxes, fatty acids, glycerides, hydrocarbons and a large variety of natural and synthetic resins.

**INCI:**
Myrica Cerifera (Bayberry) Fruit Wax

**CAS:**
8038-77-5

**HS/TARIFF CODE:**
1521.10.0060

**MELT POINT:**
40-55°C

**CONGEAL POINT:**
3-15

**ACID VALUE:**
188-225

**SAPONIFICATION VALUE:**
TMS, Cream to Pale Yellow

**COLOR:**
Light Brown to Olive Green

**PRODUCT FORM:**
Paste

**PACKAGING:**
25kg Carton

**PALLET SIZE:**
800kgs Net

**BEE’S MILK WAX # 138B**

**Paraben Free Wax # 437B**

Film Former/Cold Formulating

**GENERAL INFORMATION**

Bee’s Milk is a natural dispersion of Beeswax in water. Bee’s Milk makes it possible to ‘Cold Formulate’. A formulator is able to get the benefits of Beeswax in a formulation without having to heat that phase of the formula. The lipid composition in Bee’s Milk closely, mimics the natural lipid composition of the skin, thus copying the skin’s own natural secretions, making Bee’s Milk nature’s emollient. Bee’s Milk Natural solids content - 20-30%.

Bee’s Milk is very easy to work with. It is dispersible in water, glycol, and alcohol and provides the opportunity to cold formulate. Bee’s Milk is a highly stable emollient, film former, and opacifier.

**INCI:**
Water, Beeswax, Sesame Oil, Lecithin, Methyl Paraben, Sorbitan Stearate, Caprylyl Glycol, Phenoxethanol, Hexylene Glycol

**CAS:**

**HS/TARIFF CODE:**
1521.90.2000

**MELT POINT:**
3-15

**ACID VALUE:**
188-225

**SAPONIFICATION VALUE:**
Light Brown to Olive Green

**COLOR:**
Paste

**PRODUCT FORM:**
25kg Carton

**PACKAGING:**
800kgs Net

**PALLET SIZE:**
24 Pails, 4 Drums

**BEE’S MILK NATURAL WAX # 593B**

**Film Former/Cold Formulating**

**GENERAL INFORMATION**

Bee’s Milk – Natural is an ALL natural dispersion of Beeswax in water. Bee’s Milk – Natural allows a formulator to utilize the properties of Beeswax without having to apply heat to the formulation, allowing cold formulation. This provides a way to incorporate natural Beeswax into many applications, since processing requires no more energy than pouring, measuring, and mixing. Bee’s Milk solid content – 20-36%.

All Natural and Easy of Handling, Versatility of Formulation/Cold Formulating, Film Former/Barrier, High Stability, Opacifying Aqueous Products & Gels, Reduces Tackiness of Hydro-gels, 100% Water Dispersible, Multi-Functional/Energy Saving

**INCI:**
Water, Beeswax, Glycine Soya (soybean) Oil, Glycercyl Caprylate, Polyglyceryl-10 Laurate

**CAS:**

**HS/TARIFF CODE:**
1521.90.2000

**MELT POINT:**
3-15

**ACID VALUE:**
188-225

**SAPONIFICATION VALUE:**
Light Brown to Olive Green

**COLOR:**
Paste

**PRODUCT FORM:**
25kg Carton

**PACKAGING:**
800kgs Net

**PALLET SIZE:**
24 Pails, 4 Drums
**Beeswax is secreted by the glands of the honeybee (Apis Mellifera) and is used as a building material for honeycombs. Modern agriculture depends on professional beekeeping for pollination of crops. The large number of agricultural countries exporting Beeswax ensures that it is never in short supply. Because of the highly complex composition of Beeswax and its soft pliable nature, Beeswax remains an indispensable raw material for many finished products even after centuries of commercial use.**

For each customer’s application, we guarantee consistent quality and availability by careful blending of selected waxes. Quality is strictly controlled in our modern production facilities as well as in our well-equipped laboratory.

- Color, Cosmetics, Emulsions, Hair Care, Ointments, Salves, Pharmaceutical Excipients.

Beeswax has been used for thousands of years for its unique chemistry which has the ability to produce creamy textures in a variety of cosmetic applications. In emulsions, the free fatty acids can be used to make in-situ emulsifiers, improving emulsion stability and texture.

**Sustained Release for Pharmaceuticals and Nutraceuticals**

Powdered Beeswax Blend starts with Natural Feral Beeswax NF that has had Carnauba Wax NF added. By incorporating a small amount of Carnauba Wax NF the tactile properties are altered enough to produce a flowable powder that has increased application potential in Pharmaceutical and Nutraceutical formulating.

All test results reported on c/a. Formulate food, nutraceuticals, and pharmaceuticals with confidence.

For use in Gel Capsules, Ointments, Salves, Pharmaceutical Excipients, OTC, Food, Nutraceuticals, and Pharmaceuticals.

Compatible with Plant, Animal, and Mineral Waxes, Fatty Acids, Fatty Alcohols, Glycerides, Hydrocarbons, Synthetic Waxes, and other Waxes, Resins and Oils. Wax #436 is 95% Organic Purity and Wax #481 is 100% Organic Purity.

Powdered Beeswax Blend is compatible with conventional raw materials like: Powdered MCC, Powdered Actives, Powdered Excipients, Powdered Plant, Animal, and Mineral Waxes, Powdered Fatty Acids, Glycerides, Powdered Hydrocarbons, Powdered Synthetic Waxes, and most other Resins and Oils.

---

**Fermented Beeswax**

Organic Beeswax is sourced globally from regions in Africa, Asia, and South America. It is sourced free of modern agricultural techniques and chemical treatment with fertilizers and pesticides. Beeswax NF-USP561 is tested and is compliant per monograph prior to release for shipment.

Organic Beeswax is tested for the presence of Chloramphenicol and 5-Nitrofurans. White NF Beeswax #513P Yellow NF Beeswax #566P Third party test results provided to customer.

For use in Gel Capsules, Ointments, Salves, Pharmaceutical Excipients, OTC, Food, Nutraceuticals, and Pharmaceuticals.

Compatible with Plant, Animal, and Mineral Waxes, Fatty Acids, Fatty Alcohols, Glycerides, Hydrocarbons, Synthetic Waxes, and other Waxes, Resins and Oils. Wax #436 is 95% Organic Purity and Wax #481 is 100% Organic Purity.

Powdered Beeswax Blend is compatible with conventional raw materials like: Powdered MCC, Powdered Actives, Powdered Excipients, Powdered Plant, Animal, and Mineral Waxes, Powdered Fatty Acids, Glycerides, Powdered Hydrocarbons, Powdered Synthetic Waxes, and most other Resins and Oils.

---

**Organic Beeswax NF-USP561#570**

Organic Beeswax is sourced globally from regions in Africa, Asia, and South America. It is sourced free of modern agricultural techniques and chemical treatment with fertilizers and pesticides. Beeswax NF-USP561 is tested and is compliant per monograph prior to release for shipment.

Organic Beeswax is tested for the presence of Chloramphenicol and 5-Nitrofurans. White NF Beeswax #513P Yellow NF Beeswax #566P Third party test results provided to customer.

For use in Gel Capsules, Ointments, Salves, Pharmaceutical Excipients, OTC, Food, Nutraceuticals, and Pharmaceuticals.

Compatible with Plant, Animal, and Mineral Waxes, Fatty Acids, Fatty Alcohols, Glycerides, Hydrocarbons, Synthetic Waxes, and other Waxes, Resins and Oils. Wax #436 is 95% Organic Purity and Wax #481 is 100% Organic Purity.

Powdered Beeswax Blend is compatible with conventional raw materials like: Powdered MCC, Powdered Actives, Powdered Excipients, Powdered Plant, Animal, and Mineral Waxes, Powdered Fatty Acids, Glycerides, Powdered Hydrocarbons, Powdered Synthetic Waxes, and most other Resins and Oils.

---

**Organic Beeswax NF-401P, 436P**

Organic Beeswax is sourced globally from regions in Africa, Asia, and South America. It is sourced free of modern agricultural techniques and chemical treatment with fertilizers and pesticides. Beeswax NF-USP561 is tested and is compliant per monograph prior to release for shipment.

Organic Beeswax is tested for the presence of Chloramphenicol and 5-Nitrofurans. White NF Beeswax #513P Yellow NF Beeswax #566P Third party test results provided to customer.

For use in Gel Capsules, Ointments, Salves, Pharmaceutical Excipients, OTC, Food, Nutraceuticals, and Pharmaceuticals.

Compatible with Plant, Animal, and Mineral Waxes, Fatty Acids, Fatty Alcohols, Glycerides, Hydrocarbons, Synthetic Waxes, and other Waxes, Resins and Oils. Wax #436 is 95% Organic Purity and Wax #481 is 100% Organic Purity.

Powdered Beeswax Blend is compatible with conventional raw materials like: Powdered MCC, Powdered Actives, Powdered Excipients, Powdered Plant, Animal, and Mineral Waxes, Powdered Fatty Acids, Glycerides, Powdered Hydrocarbons, Powdered Synthetic Waxes, and most other Resins and Oils.

---

**Organic Beeswax NF-4400**

Organic Beeswax is sourced globally from regions in Africa, Asia, and South America. It is sourced free of modern agricultural techniques and chemical treatment with fertilizers and pesticides. Beeswax NF-USP561 is tested and is compliant per monograph prior to release for shipment.

Organic Beeswax is tested for the presence of Chloramphenicol and 5-Nitrofurans. White NF Beeswax #513P Yellow NF Beeswax #566P Third party test results provided to customer.

For use in Gel Capsules, Ointments, Salves, Pharmaceutical Excipients, OTC, Food, Nutraceuticals, and Pharmaceuticals.

Compatible with Plant, Animal, and Mineral Waxes, Fatty Acids, Fatty Alcohols, Glycerides, Hydrocarbons, Synthetic Waxes, and other Waxes, Resins and Oils. Wax #436 is 95% Organic Purity and Wax #481 is 100% Organic Purity.

Powdered Beeswax Blend is compatible with conventional raw materials like: Powdered MCC, Powdered Actives, Powdered Excipients, Powdered Plant, Animal, and Mineral Waxes, Powdered Fatty Acids, Glycerides, Powdered Hydrocarbons, Powdered Synthetic Waxes, and most other Resins and Oils.
KOSTER KEUNEN WAX COLLECTION

**BEHENYL BEESWAX**

**WAX# 136P**

Viscosity Modifier

**GENERAL INFORMATION**

- **DESCRIPTION:** Behenyl Beeswax is made by modifying beeswax to be less crystalline. This is an advantage in cosmetic applications because crystallinity negatively impacts the stability of most cosmetic products. Behenyl Beeswax enhances the performance of many formulations making it a welcome alternative to typical beeswax and other wax products.

- **APPLICATIONS:** Creams, Lotions, Make-ups, Lipsticks, Lip Balms, Mascaras, Hair Care, and Sunscreen Products

- **ADVANTAGES:** By using Behenyl Beeswax, stable, strong, and smooth gels are produced at low wax concentrations. A wide range of oils can be gelled and stabilized with Behenyl Beeswax, including many silicone and polar oils. Behenyl Beeswax enhances the oil gelling capability and oil retaining properties in formulas that use difficult gelling oils.

- **REGULATORY**
  - **INCI:** Behenyl Beeswax
  - **CAS:** 144514-54-5
  - **HS/TARIFF CODE:** 1521.90.2000

- **SPECIFIC PRODUCT DATA**
  - **PENETRATION:** 66-72°C
  - **MELT POINT:** <3
  - **CONGEAL POINT:** 78-90
  - **ACID VALUE:** <2
  - **SAPONIFICATION VALUE:** 43-65
  - **COLOR:** White to Off-White
  - **PRODUCT FORM:** Pastille
  - **PACKAGING:** 25kg Carton
  - **PALLET SIZE:** 800kgs Net

**CANDELILLA WAX**

**WAX# 102P, 204P, 419P**

Viscosity Modifier

**GENERAL INFORMATION**

- **DESCRIPTION:** Candelilla Wax is obtained from a shrub named *Euphorbia Cerifera*, indigenous to northern Mexico. The wax protects the plant against the environment and prevents excessive evaporation. Candelilla wax consists of hydrocarbons (ca. 50%, C29-C33, mainly C31), esters, phytosterols, free fatty acids, free fatty alcohols and resins. This hard vegetable wax is mainly used for cosmetic and pharmaceutical stick products. It is also suitable for W/O emulsions.

- **APPLICATIONS:** Lipsticks, Lip balms, Sunscreens, Polishes, Varnishes, Decorative Cosmetics, Emulsions, Food, Lubricants, Adhesives, Waterproofing, Pharmaceutical and Nutraceutical

- **ADVANTAGES:** Candelilla Wax has extraordinary oil binding properties, improving the stability and texture of cosmetic products. In Sticks: provides good mold release, firmness, surface gloss and improves softening point. Often used in combination with carnauba wax, beeswax and other waxes to improve skin feel, adhesion and pay-off properties.

- **REGULATORY**
  - **INCI:** *Euphorbia Cerifera* (Candelilla) Wax
  - **CAS:** 8006-44-8
  - **HS/TARIFF CODE:** 1521.10.0020

- **SPECIFIC PRODUCT DATA**
  - **MELT POINT:** 68-72.5°C
  - **ACID VALUE:** <2
  - **SAPONIFICATION VALUE:** 43-65
  - **COLOR:** Yellow
  - **PRODUCT FORM:** Pastille
  - **PACKAGING:** 25kg Carton
  - **PALLET SIZE:** 800kgs Net

**CANDELILLA ACID FREE**

**WAX# 152P**

Viscosity Modifier

**GENERAL INFORMATION**

- **DESCRIPTION:** Acid-Free Candelilla, or Cetearyl Candelillate, is a derivative of Candelilla Wax. The free acids of Candelilla are reduced using vegetable based cetearyl alcohol to create a more amorphous wax with reduced crystallinity. Through this reduction in acid value, through the formation of esters, the potential for interaction with other cosmetic raw materials such as the free ions found in many cosmetic pigments lowers.

- **APPLICATIONS:** Skin Care Products, Lipsticks, Lip Balms, Leather Dressings, Polishes, Varnishes, Sealing Waxes, Insulating Compositions, Rubber Waterproofing, Soft Wax Stiffeners, Lubricants, and Adhesives

- **ADVANTAGES:** Acid-Free Candelilla is highly compatible, inhibits crystallization, and acts as a gellant. Acid-Free Candelilla also has water repellent, moisturizing, and film forming properties.

- **REGULATORY**
  - **INCI:** Cetearyl Candelillate
  - **CAS:** 138724-54-6
  - **HS/TARIFF CODE:** 3404.90.

- **SPECIFIC PRODUCT DATA**
  - **MELT POINT:** 62-72°C
  - **ACID VALUE:** <2
  - **SAPONIFICATION VALUE:** 45-60
  - **COLOR:** Light Yellow to Brown
  - **PRODUCT FORM:** Pastille
  - **PACKAGING:** 25kg Carton
  - **PALLET SIZE:** 800kgs Net
**Viscosity Modifier**

**CARNAUBA WAX ORGANIC WAX# 412F**

**Emulsifier**

**CARNAUBA SELF EMULSIFYING EC-B0 WAX# 193P**

**Regulatory**

Copernicia Cerifera (Carnauba) Wax, Beheneth-5, Ceteareth-20

8015-86-9, 136207-49-3, 68439-49-6

1521.10.0040

**Specific Product Data**

<table>
<thead>
<tr>
<th>81-86°C</th>
<th>2-10</th>
<th>68-88</th>
<th>Yellow to Brown Pastille</th>
<th>25kg Carton</th>
<th>800kgs Net</th>
</tr>
</thead>
</table>

Self Emulsifying Carnauba, EC-B0 is unique wax blend that allows for simplification in formulating. This single wax is used for thickening, film forming and emulsifying. It has a non-greasy feel and gives the final product a nice slip feel. Self-Emulsifying Carnauba, EC-B0 is a cost-effective raw material that produces superior stability, film forming, and imparts a non-waxy feel when compared with other conventional carnauba wax blends.

In emulsion systems, high molecular weight monostearin (> C-60) like those of carnauba, are popular for their film forming and barrier properties. These monostearins have been difficult to stabilize, but this is no longer the case using EC-B0. This unique new product allows the formulator to add functionality, improve film thickness, and increase water resistance.

Creams, Lotions, Hair Care, Sunscreens, Antiperspirants, Lipsticks, Lip Balms, Make-ups & Mascara.

There are formulations where the EC-B0 may need secondary emulsifiers to ensure complete emulsification.

**Viscosity Modifier**

**CARNAUBA MILK WAX# 190B PARABEN FREE WAX# 382B**

**Film Former / Cold Formulating**

**CARNAUBA MILK NATURAL WAX# 576P**

**Film Former / Cold Formulating**

**Regulatory**

Water, Copernicia Cerifera (Carnauba) Wax, Ceteareth 20, Lecithin, Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben


1521.10.0040

**Specific Product Data**

<table>
<thead>
<tr>
<th>8015-86-9, 7732-18-5, 8015-86-9, 8001-22-1</th>
<th>26402-26-6, 34406-66-1</th>
</tr>
</thead>
</table>

Carnauba Milk is very versatile and easy to work with. It is dispersible in water and provides the opportunity to cold formulate. Carnauba Milk is a highly stable emollient, film former, opacifier, and tackiness reducer.

Carnauba Milk – Natural is an ALL natural dispersion of Type 1 Carnauba Wax in water. Carnauba Milk – Natural allows a formulator to utilize the properties of carnauba wax without having to apply heat to the formulation, allowing for cold formulation. This provides a way to incorporate natural carnauba wax into many applications, since processing requires no more energy than pouring, measuring and mixing.

Koster Keunen can also provide a paraben-free Carnauba Milk if desired. Solids 29-40%.

Carnauba Milk is an innovative, highly stable dispersion of about 30% Type 1 Carnauba Wax in water. Carnauba Milk allows a formulator to utilize the desirable natural properties of Carnauba Wax without having to apply heat to the formulation. This creates many new application advantages and possibilities since processing requires no more energy than pouring, measuring and mixing.

Skin Care, Hair Care, Shave Creams, Cream Products, Aerosol products, Leather, Shoe, Automotive, Furniture Finishes, Paint Products, Textile and Wood Coatings, Water Based Systems

All Natural and Ease of Handling, Versatility of Formulation/Cold Formulating, Film Former Barrier, High Stability, Opacifying Aqueous Products & Gels, Reduces Tackiness of Hydro-gels, 100% Water Dispersible, Multi-Functional Energy Saving.

Skin Care, Hair Care, Shave Creams, Cream Products, Aerosol products, Leather, Shoe, Automotive, Furniture Finishes, Paint Products, Textile and Wood Coatings

Water, Copernicia Cerifera (Carnauba) Wax, Glycine Soya (soybean) Oil, Glyceryl Caprylate, Polyglyceryl-10 Laurate

7732-18-5, 8015-86-9, 34406-66-1

1521.10.0040

Vegetable and Animal Waxes, Natural and Synthetic Resins, Fatty Acids, Fatty Alcohols, Fatty Esters, Glycerides, Hydrocarbons, Esters, Plant Oils and most cosmetic ingredients.

Cosmetic Emulsions (o/w and w/o type), Sun Screen, Make-ups, Foundations, Lip Balms, Pomades, Lipstick, Lip Glaces, Oil Gel Products, Decorative Cosmetics

Organic Carnauba is a vegetable wax grown only in the northeastern part of Brazil and comes from the leaves of the Brazilian “tree of life”. Organic Carnauba Wax is made from the Type 1 Prime Yellow in flake form.

Carnauba Milk if desired. Solids 29-40%.
**KOSTER KEUNEN WAX COLLECTION**

**Carnauba Wax**

**Type 1, 3&4**

**WAX# 420F,104F,105F**

Viscosity Modifier

**GENERAL INFORMATION**

**DESCRIPTION:**
Carnauba is a vegetable wax grown only in Brazil. Carnauba palm grows in the northern and northeastern part of Brazil where the soil is dark and fertile. Quality and color vary with the age of the leaves, with the younger leaves providing the prime Type 1 yellow color, and the older leaves provide the darker T-3 and T-4 wax.

**APPLICATIONS:**

**ADVANTAGES:**
Non-toxic, non-irritating, non-hazardous, improved stability.

**REGULATORY**

**INCI:** Copernicia Cerifera (Carnauba) Wax

**CAS:** 8015-86-9

**HS/TARIFF CODE:** 1521.10.0040

**SPECIFIC PRODUCT DATA**

**PENETRATION:** 80-86°C

**MELT POINT:** 80-86°C

**CONGEAL POINT:** 78-95

**ACID VALUE:** Type 1, 2-7, Type 3, 4-10

**SAPONIFICATION VALUE:** 78-95

**COLOR:** Dull Yellow to Brown

**PRODUCT FORM:** Flakes

**PACKAGING:** 25kg Bags

**PALLET SIZE:** 800kgs Net

**Cera Bellina**

**WAX# 106P**

Stability

**GENERAL INFORMATION**

**DESCRIPTION:**
Cera Bellina is a hydrophilic derivative of natural beeswax in which the free fatty acids have been converted to polyglycerol esters. Elimination of the free fatty acid in beeswax improves the oil gelling and oil retention capability of mono, di, and triglycerides; straight and branched chain esters; and paraffinic hydrocarbons. Stability has also been observed in combination with glycerides, ozokerites, carnauba and candelilla. Cera Bellina has the consistency regulating properties of beeswax and the capability of inhibiting crystallization in the oil phase. Cera Bellina greatly improves stability in dispersions, and gels many oils with relatively low wax concentrations.

**APPLICATIONS:**
Cosmetic Emulsions, Oil Gel Products, and Decorative Cosmetics

**ADVANTAGES:**
The solubility and stability of Cera Bellina is similar to that of beeswax. Products formulated with Cera Bellina produce remarkably stable, smooth gels. In decorative cosmetics, Cera Bellina helps to break up pigment agglomerates by forming a gel network, thereby maintaining an even distribution of ingredients. Cera Bellina also suppresses the fatty acid fatty alcohol migration and oil syneresis (sweating) in finished stick formulas.

**REGULATORY**

**INCI:** Polyglycerol-3 Beeswax

**CAS:** 136097-93-3, 3404.90.1000

**HS/TARIFF CODE:** 3404.90.1000

**SPECIFIC PRODUCT DATA**

**PENETRATION:** 63-73°C

**MELT POINT:** <2

**CONGEAL POINT:** 80-94

**ACID VALUE:** <2

**SAPONIFICATION VALUE:** White to Off-White

**COLOR:** White to Off White

**PRODUCT FORM:** Flakes

**PACKAGING:** 25kg Carton

**PALLET SIZE:** 800kgs Net

**Ceresin**

Viscosity Modifier

**GENERAL INFORMATION**

**DESCRIPTION:**
Ceresin Wax is a blend of petroleum wax products. The name Ceresin refers to its origin in bitumen coal mining. These waxes are now mixtures produced using paraffin and microcrystalline waxes.

**APPLICATIONS:**
Cosmetics, Ointments, Salves, Candies, Polishes, Waterproofing, Sealing, Lubricating, Hot Melt Adhesives, Electronic Insulation, Paper, Crayons

**ADVANTAGES:**
Non-toxic, non-irritating, non-hazardous, improved stability.

**REGULATORY**

**INCI:** Paraffin, Microcrystalline Wax

**CAS:** 8002-74-2, 83231-80-5

**HS/TARIFF CODE:** 2712.90

**SPECIFIC PRODUCT DATA**

**PENETRATION:** 5-15

**MELT POINT:** 130-195°F

**CONGEAL POINT:** 129-194°F

**ACID VALUE:** <1

**SAPONIFICATION VALUE:** <1

**COLOR:** White to Off White

**PRODUCT FORM:** Pastille, Slab

**PACKAGING:** 25kg Carton Pastille, 28kgs Carton Slab

**PALLET SIZE:** 800kgs Net
**Cetyl Esters NF Wax # 177P**

**Product Structure**

Cetyl Esters closely duplicate the properties of natural spermaceti wax. This wax provides lubricity, body, and viscosity in cosmetic formulations.

**GENERAL INFORMATION**

Cetyl Esters can be used as an emollient, thickener, gelant, and opacifier in formulations.

**REGULATORY**

Cetyl Palmitate

- 540-10-3
- 3402.13.20

**SPECIFIC PRODUCT DATA**

- 43-47°C
- 109-120
- ≤5
- White
- Pastille
- 25kg Carton
- 800kgs Net

**CHEESE WAX Wax # 371S**

**Product Structure**

Cheese Wax is a specialty blend of waxes formulated to provide a flexible coating which ensures a protective barrier to cheese from production to the plate. Available in red, black, yellow and custom colors.

**GENERAL INFORMATION**

Cheese Wax helps prevent unwanted mold growth while retaining moisture in aging cheese.

**REGULATORY**

Paraffin, Microcrystalline Wax, Petroleum, EVA Copolymer

- 8002-74-2, 63231-69-7, 8009-03-8, 24937-78-8
- 2712.90.

**SPECIFIC PRODUCT DATA**

- 132-144°F
- Clear, Red, Black, Custom
- Slab
- 18kg Carton

**COCOA BUTTER Deodorized Wax # 286B**

**Product Structure**

Theobroma Cacao (Cocoa) Seed Butter is a fat extracted from the seed. The Cocoa Butter is a non-chemically processed butter. By not using chemicals in the processing of Cocoa Butter, the beneficial natural properties of the Butter are preserved. Cocoa Butter is an ingredient that may be used in OTC and drug products.

**GENERAL INFORMATION**

Cocoa Butter will impart excellent moisturizing and emollience properties to your preparation.

**REGULATORY**

Theobroma Cacao (Cocoa) Seed Butter

- 8002-31-1
- 1804.00.0000

**SPECIFIC PRODUCT DATA**

- 29-35°C
- ≤4
- 188-198
- White to Off-White
- Solid
- 16kg Pail
- 39 Pails, 572kgs net per pallet

**DEPILATORY WAX Wax # 676S**

**Product Structure**

Koster Keunen Depilatory Wax is a hard wax designed to be used without fabric strips. It is a moderately fast setting depilatory wax that will adhere strongly to the hair when properly applied.

**GENERAL INFORMATION**

Our Depilatory Wax provides easy and efficient hair removal. It is applied at a soothing temperature and leaves no uncomfortable wax residue.

**REGULATORY**

Polymerized Rosin, Beeswax, Synthetic Beeswax, Hydrogenated Microcrystalline Wax

- 65997-05-9, 8012-89-3, 71243-51-1, 64742-42-3
- 3806.90.0000

**SPECIFIC PRODUCT DATA**

- 180-190°C
- Pastille, Slab
- 25kg Carton Pastille, 23kgs Carton Slabs
### Koster Keunen Wax Collection

#### NF Emulsifying Wax
**Wax # 109P**

**Description:** Our NF Emulsifying Wax is derived from plant based fatty alcohols. It is self-emulsifying, highly stable in acidic and basic media, and is highly compatible with most cosmetic and pharmaceutical ingredients. NF Emulsifying Wax is low in odor, and has a broad range of applications. Low concentrations of NF Emulsifying Wax will improve the consistency and stability of emulsions.

**Applications:** Creams, Lotions, Shampoos, Conditioners, Pomades, Sunscreens, Pharmaceutical Ointments, Salves, Skin Protection

**Advantages:** Our NF Emulsifying Wax is a cost effective raw material that can enhance product stability and provide the textures and consistencies that formulators want. Special blends can be made to incorporate other ingredients into the Emulsifying Wax to produce a multi-functional wax that offers added conditioning, stabilizing, or sunscreen and UV absorbing properties to hair care products. Our NF Emulsifying Wax is non-toxic.

**InCI:** Cetearyl Alcohol, Polysorbate 60, (2008 USP/NF Pharmacopoeia; NF 26, pg. 1290)

**CAS:** 67762-27-9, 9005-67-8

**HS/Tariff Code:** 3823.70.4000

**Specific Product Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration</td>
<td>50-54°C</td>
</tr>
<tr>
<td>Melt Point</td>
<td>62-75°C</td>
</tr>
<tr>
<td>Congeal Point</td>
<td>62-75°C</td>
</tr>
<tr>
<td>Acid Value</td>
<td>2.5 max.</td>
</tr>
<tr>
<td>Saponification Value</td>
<td>120-150</td>
</tr>
<tr>
<td>Color</td>
<td>Orange to Brown</td>
</tr>
<tr>
<td>Product Form</td>
<td>Pastille</td>
</tr>
<tr>
<td>Packaging</td>
<td>25kg Carton</td>
</tr>
<tr>
<td>Pallet Size</td>
<td>800kgs Net</td>
</tr>
</tbody>
</table>

#### Organic Emulsifying Wax
**Wax # 462P**

Koster Keunen’s Organic Emulsifying Wax produces silky and stable emulsions in concentrations between 4% - 10%. It can be used as both the primary and secondary emulsifier (when neutralized with a small amount of sodium or potassium hydroxide in the water phase while making the emulsion). Organic Emulsifying Wax makes the formulating of organic certified creams and lotions vary.

**Applications:** Creams, Lotions, Pomade, Balms

**Specific Product Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration</td>
<td>50-54°C</td>
</tr>
<tr>
<td>Melt Point</td>
<td>62-75°C</td>
</tr>
<tr>
<td>Congeal Point</td>
<td>62-75°C</td>
</tr>
<tr>
<td>Acid Value</td>
<td>2.5 max.</td>
</tr>
<tr>
<td>Saponification Value</td>
<td>120-150</td>
</tr>
<tr>
<td>Color</td>
<td>Orange to Brown</td>
</tr>
<tr>
<td>Product Form</td>
<td>Pastille</td>
</tr>
<tr>
<td>Packaging</td>
<td>25kg Carton</td>
</tr>
<tr>
<td>Pallet Size</td>
<td>800kgs Net</td>
</tr>
</tbody>
</table>

#### Jojoba Wax Beads
**Wax # 460G**

Jojoba wax is pigmented, sprayed and sifted, available in many different colors and sizes. The jojoba beads leave the skin feeling soft and dry, and the waxy nature of the jojoba bead slows down the loss of moisture, and improves the flexibility and elasticity of the skin.

**Applications:** Creams, Lotions, Thick Gels, Clear Gels, Bath Soaps, Bath Cleansers, Facial and Body Scrubs

**Specific Product Data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penetration</td>
<td>68-73°C</td>
</tr>
<tr>
<td>Melt Point</td>
<td>68-73°C</td>
</tr>
<tr>
<td>Congeal Point</td>
<td>68-73°C</td>
</tr>
<tr>
<td>Acid Value</td>
<td>&lt; 14</td>
</tr>
<tr>
<td>Saponification Value</td>
<td>&lt; 14</td>
</tr>
<tr>
<td>Color</td>
<td>Red, Yellow, Green, Blue, White</td>
</tr>
<tr>
<td>Product Form</td>
<td>Pastille</td>
</tr>
<tr>
<td>Packaging</td>
<td>10kg Carton</td>
</tr>
<tr>
<td>Pallet Size</td>
<td>500kgs Net</td>
</tr>
</tbody>
</table>
**JOJOBA WAX FLAKES**

**WAX# 429F**

**General Information**

Jojoba wax is the result of hydrogenating pure and natural jojoba oil. What makes jojoba unique is that it is an extremely long (C36-C46) straight-chain wax ester and not a triglyceride, making jojoba and its derivative jojoba esters more similar to human sebum than to traditional vegetable oils.

Jojoba wax is high melt point, hard, and very stable.

**Specific Product Data**

- 680kgs Net
- 25kg Carton
- Granule, Flake
- 800kgs Net

**Regulatory**

Hydrogenated Jojoba Oil

- 66625-78-3
- 1516.20.9000

**Creams, Lotions, Lipsticks, Eye Shadows, Pencils, Hot Pour Make-ups, Sun Tan Gels, Sunscreens, Hair Care Products, Antiperspirants and Household Products**

Jojoba Wax has strong gelling properties that allow a formulator greater opportunity to use various oils and fluids in anhydrous products without the need for numerous gelling agents.

**BRANCHED KESTER WAX BK-40**

**WAX# 197B**

**General Information**

Branched Kester Wax is a new high molecular weight branched ester. The properties of this wax are unique, it is hard and brittle, yet has a low melting point. This is the first time these properties have become available in a true wax.

Branched Kester Wax BK-40 improves skin feel, imparts a creamy texture in formulations, and is less greasy than triglycerides. Due to the high molecular weight of the Branched Kester Wax BK-40, it is an excellent film former, and in formulations it helps to reduce transepidermal water loss.

**Specific Product Data**

- 68-73°C
- <5
- 65-83
- Semi-solid
- 18kg Pail
- 24 Pails, 432kgs Net

**Regulatory**

C32-36 Isocetyl Stearate

- 88201-22-9
- 3402.13.20

This wax can be used as a replacement for more expensive ingredients such as coco and shea butter as well as other partially hydrogenated and fully hydrogenated triglycerides, which have been traditionally used for their low melting points and creamy textures in formulations.

**KESTER WAX-CT**

**WAX# 592S**

**Viscosity Modifier**

Kester Wax - CT is manufactured from naturally derived, non-animal, high molecular weight esters duplicating the chemical and physical properties of animal based lanolin wax. Kester Wax - CT has the same chemical functionality as lanolin wax, and closely mimics the composition, creating a true substitute allowing for one-to-one substitutions in most cosmetic formulations. Kester Wax - CT has the added benefit that it contains no pesticide residues.

**Specific Product Data**

- 68-73°C
- <15
- 65-83
- 18kg Pail
- 24 Pails, 432kgs Net

**Regulatory**

C-32-36 Isocetyl Stearate, Polyhydroxystearic Acid, Stearyl Behenate, Cetearyl Alcohol, Polyglyceryl-1 Stearate, Polysorbate 60

- 66201-22-9, 58128-22-6, 3402.13.20

Kester Wax - CT has application as a thickener, binding agent, emulsion stabilizer, hair conditioning agent and viscosity increasing agent.

**KESTER WAX K-24**

**WAX# 358**

**Emollient, Slip Agent**

Kester Wax K-24 is a plant based low molecular weight nontoxic compatible with most cosmetic ingredients. Kester Wax K-24 is used as a slip agent in anhydrous systems like mineral oil and wax. Kester Wax K-24 can replace many ester oils in cosmetic formulas and provide a smooth non-greasy feel. The low melt point of Kester Wax K-24 helps to increase the stability of cosmetic formulations.

**Specific Product Data**

- 27°C
- 23-30°C
- <2
- 130-150
- Off-White to Light Yellow
- Semi-Solid
- 18kg Pail
- 24 Pails, 432kgs Net

**Regulatory**

Lauryl Lauratte

- 13945-76-1
- 3402.13.20

Kester Wax K-24 allows a formulator greater opportunity to use various oils and fluids in products without producing the occlusive skin feel that is typical with some oils. The consistency and texture of the K-24 allows the formulator to easily regulate the feel and emollience of oils and fluids in cosmetic formulations.
# Koster Keunen Wax Collection

## Kester Wax K-30
 **WAX# 569B**

### General Information
Kester Wax K-30 is a unique very low melting, hard and brittle, powdery wax. It is manufactured by esterification of a special long chain guerbet alcohol with vegetable fatty acids. This synthetic specialty wax combines hardness and a high molecular weight with a melting point just below body temperature. Its molecules have a remarkable star-like shape consisting of three outward directed alkyl chains of similar length with the ester bond located in the center of the molecule.

The absence of unsaturation provides good chemical and thermal stability. As a true wax, Kester wax K30G performs typical wax functions as a gellant and thickener of many cosmetic oils.

### Applications:
- Sticks, Decorative Cosmetics, Mascaras, Emulsions

### Advantages:
On the skin Kester Wax K30G gives a silicone like feel. This wax improves the sensory properties of formulations. Due to its low melting point this emollient wax melts on the skin. It contributes to texture, skin feel, lubricity and improves the spread and slip properties of a formulation, while reducing greasiness, stickiness and occlusivity.

### Regulatory

<table>
<thead>
<tr>
<th>INCI</th>
<th>CAS</th>
<th>HS/TARIFF CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetyl Myristate</td>
<td>3234-85-3</td>
<td>3402.13.20</td>
</tr>
</tbody>
</table>

### Specific Product Data

<table>
<thead>
<tr>
<th>Penetration:</th>
<th>Melt Point:</th>
<th>Congeal Point:</th>
<th>Acid Value:</th>
<th>Saponification Value:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>33-38°C USP 741 Class II</td>
<td>33-38°C USP 741 Class II</td>
<td>28-35°C ASTM D 938</td>
<td>&lt;3</td>
<td>65-80</td>
<td>White to Off-White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Form:</th>
<th>Packaging:</th>
<th>Pallet Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Granule</td>
<td>25kg Boxes</td>
<td>800kgs Net</td>
</tr>
</tbody>
</table>

## Kester Wax K-385
 **WAX# 352D**

### General Information
Kester Wax K-385 is high purity ester wax from naturally derived feed stock. K-385 has good thermal stability, and very narrow thermal phase change, good film forming properties and wide compatibility in ink systems and personal care products.

### Applications:
- Solvent Based, Water Based (emulsions), Sheet Fed, Heat Set, Hot Melt, Off Set, Thermal Transfer Ribbon, UV Curable, Overprint Varnish

### Advantages:

### Regulatory

<table>
<thead>
<tr>
<th>INCI</th>
<th>CAS</th>
<th>HS/TARIFF CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetyl Palmitate</td>
<td>540-10-3</td>
<td>3402.13.20</td>
</tr>
</tbody>
</table>

### Specific Product Data

<table>
<thead>
<tr>
<th>Penetration:</th>
<th>Melt Point:</th>
<th>Congeal Point:</th>
<th>Acid Value:</th>
<th>Saponification Value:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40-50°C</td>
<td>105-130</td>
<td>&lt;2</td>
<td>65-80</td>
<td>White to Light Tan</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Form:</th>
<th>Packaging:</th>
<th>Pallet Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>190kgs Drum</td>
<td>4 Drums</td>
</tr>
</tbody>
</table>

## Kester Wax K-48
 **WAX# 120P**

### General Information
Kester Wax K-48, Cetyl Esters, closely duplicates the properties of natural spermaceti wax. This wax provides lubricity, body, and viscosity in cosmetic formulations.

### Applications:
- Creams, Lotions, Gels, Lipsticks, Antiperspirants, Food Packaging and Ointments

### Advantages:
Kester Wax K-48 can be used as an emollient, thickener, gellant, and opacifier in formulations.

### Regulatory

<table>
<thead>
<tr>
<th>INCI</th>
<th>CAS</th>
<th>HS/TARIFF CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cetyl Palmitate</td>
<td>3402.13.20</td>
<td>3402.13.20</td>
</tr>
</tbody>
</table>

### Specific Product Data

<table>
<thead>
<tr>
<th>Penetration:</th>
<th>Melt Point:</th>
<th>Congeal Point:</th>
<th>Acid Value:</th>
<th>Saponification Value:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>45-53°C</td>
<td>&lt;5</td>
<td>&lt;2</td>
<td>65-80</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Form:</th>
<th>Packaging:</th>
<th>Pallet Size:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>109-125</td>
<td>25kg Carton</td>
</tr>
</tbody>
</table>

|               | 800kgs Net |
|               |           |
**KESTER WAX K-56**  
**WAX# 128P**  
Product Structure, Slip Agent

**GENERAL INFORMATION**

Kester Wax K-56 is a plant based monester that is compatible with most cosmetic ingredients. Kester Wax K-56 has application as a slip agent and is used for structuring cosmetic and personal care anhydrous systems. Kester Wax K-56 can replace ester oils in cosmetic formulas and provide a smooth non-greasy feel. The melt point of Kester Wax K-56 helps to increase the stability in many cosmetic formulations.

| Lipsticks, Lip Balms, Eye Shadow, Pencils, Sun Tan Gels, Hot Pour Make-ups, Hair Care, Antiperspirants, and Household Products |

**REGULATORY**

Cetearyl Stearate  
93820-97-4  
3402.13.20

**SPECIFIC PRODUCT DATA**

- 54-57°C  
- <2  
- 100-105  
- White to Off-White  
- Solid  
- 25kg Carton  
- 800kgs Net

---

**KESTER WAX K-59**  
**WAX# 129**  
Product Structure

**GENERAL INFORMATION**

K-59 (Stearyl Stearate) is an ester of stearyl alcohol and stearic acid. K-59 has a wide range of uses as an ingredient in lubricants, resins, perfumes and cosmetics. It is used as an emollient, emulsifier, and thickener in ointments of various sorts, and is widely used as a hair coating in shampoos and hair conditioners.

| Creams, Lotions, Gels, Lipsticks, Antiperspirants, Ointments |

**REGULATORY**

Stearyl Stearate  
2778-96-3  
3402.13.20

**SPECIFIC PRODUCT DATA**

- 54-57°C  
- <2  
- 100-105  
- White  
- Pastille  
- 25kg Carton  
- 800kgs Net

---

**KESTER WAX K-60P**  
**WAX# 484B**  
Product Structure

**GENERAL INFORMATION**

Kester Wax K-60P is a soft and pliable polyester wax that is naturally derived from castor oil. K-60P is ideal for creating creamier textures while increasing the stability of the product.

| Creams, Lotions, Lipsticks, Lip Balms, Mascaras, Make-ups, Stick Pencils, Shave Creams, Sunscreens |

**REGULATORY**

Polyhydroxystearic Acid  
58128-22-6  
3402.13.20

**SPECIFIC PRODUCT DATA**

- 54-57°C  
- <2  
- 100-105  
- White  
- Pastille  
- 25kg Carton  
- 800kgs Net

---

**KESTER WAX K-62**  
**WAX# 130P**  
Product Structure

**GENERAL INFORMATION**

Kester Wax K-62 is a hard, medium chain ester wax from naturally derived feed stock. K-62 has good thermal stability, very narrow thermal phase change when measured by DSC, good film forming properties and wide compatibility in ink systems.

| Solvent Based, Water Based (emulsions), Sheet Fed, Heat Set, Hot Melt, Off Set, Thermal Transfer Ribbon, UV Curable |

**REGULATORY**

Stearyl Behenate, Cetyl Stearate, Stearyl Stearate  
24271-12-3, 1190-63-2, 2778-96-3  
3402.13.20

**SPECIFIC PRODUCT DATA**

- 54-57°C  
- <2  
- 100-105  
- White to Light Yellow  
- Pastille  
- 25kg Carton  
- 800kgs Net
KOSTER KEUNEN WAX COLLECTION

KESTER WAX K-72
WAX# 131P
Product Structure

GENERAL INFORMATION
Kester Wax K-72 is a hard, high purity mono-ester wax derived from natural ingredients. K-72 has good thermal stability, very narrow thermal phase change when measured by DSC, good film forming properties and excellent compatibility in inks and thermal transfer ribbons. K-72 is also used to create structure in sticks and other anhydrous cosmetics.

APPLICATIONS:
Cosmetics, Body Wash, Body Scrubs, Creams, Gels, Inks and Body Butters

ADVANTAGES:
K-72 has excellent oil gelling and binding capabilities. A wide range of oils can be gelled using low concentrations of K-72. It is used to create product structure and as a viscosity modifier.

REGULATORY
INCI: Behenyl Behenate
CAS: 17671-27-1
HS/TARIFF CODE: 3402.13.20

SPECIFIC PRODUCT DATA
PENETRATION: 70-74°C
MELT POINT: 79-89
CONGEAL POINT: <2
ACID VALUE: 79-89
SAPONIFICATION VALUE: 55-75
COLOR: White to Light Yellow
PRODUCT FORM: Pastille
PACKAGING: 25kg Carton
PALLET SIZE: 800kgs Net

KESTER WAX K-82D
WAX# 167P
Gellant

GENERAL INFORMATION
Kester Wax K-82D is a high molecular weight dimer acid ester with very strong gelling properties for cyclomethicones, phenylmethicones, and many other common cosmetic oils. Kester Wax K-82D is a replacement for mineral waxes in anhydrous applications.

APPLICATIONS:
Cosmetics, Lipsticks, Lip Balms, Pencils, Gels, Sunscreens, Hair Products, Make-ups, Eye Shadow, Automotive Polishes, Mineral Wax Replacements

ADVANTAGES:
Kester Wax K-82D has strong gelling properties that allow a formulator greater opportunity to use various oils and fluids in anhydrous products without the need for numerous gelling agents. Variations in the concentration of K-82D used can easily regulate the consistency and texture of a product.

REGULATORY
INCI: Di-C20-40 Alkyl Dimer Dilinoleate
CAS: 188689-92-4
HS/TARIFF CODE: 3402.13.20

SPECIFIC PRODUCT DATA
PENETRATION: 70-74°C
MELT POINT: 79-89
CONGEAL POINT: <2
ACID VALUE: 79-89
SAPONIFICATION VALUE: 55-75
COLOR: White to Light Yellow
PRODUCT FORM: Pastille
PACKAGING: 25kg Carton
PALLET SIZE: 800kgs Net

KESTER WAX K-82H
WAX# 124P
Gellant

GENERAL INFORMATION
Kester Wax K-82H is a very hard, high melting point, long chain synthetic ester wax prepared by the esterification of natural fatty acids with synthetic fatty alcohols. Can be used as a substitute for Carnauba Wax.

APPLICATIONS:

ADVANTAGES:
Kester Wax K-82H has excellent oil-gelling and oil-binding capabilities. A wide range of cosmetic oils can be gelled with low concentrations of K-82H yielding high gel strengths. K-82H also improves the quality of cosmetic sticks by increasing the softening point, suppressing migration, and improving product homogeneity.

REGULATORY
INCI: Synthetic Beeswax
CAS: 71243-51-1
HS/TARIFF CODE: 13097-96-6

SPECIFIC PRODUCT DATA
PENETRATION: 80-85°C
MELT POINT: <2
CONGEAL POINT: 72-96
ACID VALUE: 79-89
SAPONIFICATION VALUE: 55-75
COLOR: White to Light Brown
PRODUCT FORM: Pastille
PACKAGING: 25kg Carton
PALLET SIZE: 800kgs Net
**KESTER WAX K-82-P**

**WAX# 154S**

Plasticizer

Kester Wax K-82P is a soft ester wax with properties similar to the complex polyester fraction of beeswax, the same fraction that gives beeswax its unique plastic properties.

Lipsticks, Lip Balms, Creams, Lotions, Stick, Pencils, Shave Creams, Mascara, Make-ups, Color Concentrates, Emulsion Lubricants, Paints, Paraffin Modifiers, Printing Inks, Plastic Processing, Crayons

Incorporating Kester Wax K-82P in sticks improves the film forming, adhesion, and plasticity. K-82P suppresses the crystallization of castor and other waxes. This high melting point wax is pliable at room temperature.

**REGULATORY**

C18-38 Alkyl Hydroxystearoyl Stearate

151661-95-9

3404.90

**SPECIFIC PRODUCT DATA**

75-85°C

78-84°C

<10

50-80 (86-88)

Light Yellow to Light Brown

Slab

29kg Carton

920kgs Net

---

**KESTER WAX K-80**

**WAX# 516P**

Montan Wax Replacement

Kester Wax K-AE-80 consists of high molecular weight fatty acids with some di-esters that have been designed for emulsion applications and a functional equivalent to Montan Acids. K-AE-80 is from naturally derived feed stock, is hard with good thermal stability, very narrow thermal phase change when measured by DSC, good film forming properties, dispersant aid and good compatibility in ink systems.

Solvent Based, Water Based (emulsions), Sheet Fed, Heat Set, Hot Melt, Off Set, Thermal Transfer Ribbon, UV Durable, Deepprint Varnish, Cosmetic - Emulsifier

Renewable and sustainable alternative for montan acids.

**REGULATORY**

Hexanedioic Acid-Dihexanedecyl Ester

251554-90-2, 26720-21-8

3402.13.20

**SPECIFIC PRODUCT DATA**

70-85°C

108-125

130-190

Light Yellow to Yellow

Pastille

25kgs

800kgs Net

---

**KESTER WAX K-EM**

**WAX# 330P**

Gellant

Kester Wax K-EM is a montan-glycol wax approved by the German Pharmacopeia (DAP), for use in coatings and as a strong gelling agent when used in anhydrous products.

Lipsticks, Lip Balms, Eye Shadows, Pencils, Hot Pour Make-ups, Sun Tan Gels, Antiperspirants, OTC Products, Inks, Coatings and Household Products

Kester Wax K-EM has strong gelling properties in various oils and fluids. Consistency and texture can be easily regulated by formulating with K-EM. Kester Wax K-EM can also be used as a carnauba replacement in coatings and in tablet binding.

**REGULATORY**

Glycol Montanate

23138-45-1

3402.13.20

**SPECIFIC PRODUCT DATA**

70-85°C

< 15

110-145

Light Yellow to Light Brown

Pastille

25kgs

800kgs Net

---

**KESTER WAX-LWS**

**WAX# 597S**

Lanolin Wax Substitute

Kester Wax – LWS acts as a thickener, binding agent, emulsion stabilizer, hair conditioning agent and viscosity increasing agent.

Pomades, Shampoos, Conditioners, Creams, Lotions, Eye Shadows, Make-ups, Sunscreens, Sun Tan Gels, Lipsticks, Lip Balms, Shave Creams and Depilatories

Kester Wax – LWS is made up of solid higher molecular weight, high melt point esters. Kester Wax – LWS has been manufactured from naturally derived, non-animal, high molecular weight esters duplicating the chemical and physical properties of the animal based lanolin wax. Kester Wax - LWS has the same chemical functionality as lanolin wax, mimics its composition, creating a true substitute allowing for one-to-one substitutions in cosmetic formulations, producing a slightly firmer texture and a higher melting point than Kester Wax – CT.

**REGULATORY**

C32-36 Isostearl Stearate, Polyhydroxystearic Acid, Stearyl Behenate, Behenyl Alcohol, Polyglyceryl-3 Stearate, Emulsifying Wax NF

88201-22-9, 58128-22-6, 540-10-3, 24271-12-3, 661-19-8, 37349-34-1, Compendium

**SPECIFIC PRODUCT DATA**

50-89°C

75-110

<10

Light Yellow to Light Tan

Pastille

20kgs

480kgs Net
**KOSTENE C-30**  
**WAX# 275P**  
Viscosity and Rheology Modifier

**GENERAL INFORMATION**
Kostene C-30 is a low molecular weight polyethylene that acts as a thickener and adds hardness and slip to formulations when used in conjunction with volatile oils and solvents such as cyclomethicones, isopar, and isododecane.

**APPLICATIONS:**  
All types of Cosmetic Products, Household Products, Automotive, Inks, Coatings, Textile, and Crayons

**ADVANTAGES:**
Kostene C-30 is used as a thickener, gelling agent, sunscreen enhancer, film former, pigment disperser, and viscosity modifier. Kostene C-30 can also add hardness and slip to formulations and improve water resistance and barrier properties.

**REGULATORY**

**INCI:** Polyethylene

**CAS:** 9002-88-4

**HS/TARIFF CODE:** 3901.10.50

**SPECIFIC PRODUCT DATA**

**PENETRATION:** 67-75°C

**MELT POINT:** 67-75°C

**CONGEAL POINT:** 67-75°C

**ACID VALUE:** < 1

**SAPONIFICATION VALUE:** < 1

**COLOR:** White

**PRODUCT FORM:** Pastille

**PACKAGING:** 25kg Carton

**PALLET SIZE:** 800kgs Net

**KOSTOL BAQ**  
**WAX# 268P**  
Emulsifier

**GENERAL INFORMATION**
Kostol BAQ is a new emulsifying wax that is a blend of high molecular weight fatty alcohols possessing strong emulsifying properties.

**APPLICATIONS:** Hair Care, Sunscreens, After Sun Care, Creams, Lotions, Make-ups, and Mascaras

**ADVANTAGES:** Kostol BAQ functions as an emulsifier, thickener, solubilizer, and conditioner. Only three percent (3-4%) of Kostol BAQ in water produces emulsions with creamy consistency.

**REGULATORY**

**INCI:** Behenyl Alcohol, Dihydroxypropyl PEG-5 Linoleammonium Chloride, Beheneth-5, Behenoyl PG-Trimonium Chloride

**CAS:** 661-19-8, 168677-75-6, 136207-49-3, 69537-38-8

**HS/TARIFF CODE:** 3823.70.4000

**SPECIFIC PRODUCT DATA**

**PENETRATION:** 60-70°C

**MELT POINT:** < 5

**CONGEAL POINT:** < 40

**ACID VALUE:** Off-White to Light Yellow

**SAPONIFICATION VALUE:** White to Off-White

**COLOR:** White

**PRODUCT FORM:** Pastille

**PACKAGING:** 25kg Carton

**PALLET SIZE:** 800kgs Net

**KOSTOL IBT WAX# 483P**  
**KOSTOL IBT-50 WAX# 550P**

**Emulsifier Quat**

**GENERAL INFORMATION**
Kostol IBT is an emulsifying wax based on quaternary ammonium salt. This emulsifier produces thick and creamy emulsions that feel light and hydrating on the skin with 3-5% only usage levels. By putting this emulsifier in salt form it will dissolve in water, and because it is cationic it is attracted to the hair - making it the perfect ingredient for shampoos and conditioners, as well as a host of other personal care products.

**APPLICATIONS:** Hair Conditioners, Shampoos, Hair Straighteners, Sunscreens, After Sun Care, Lotions, Make-ups, and Mascaras

**ADVANTAGES:** Kostol IBT functions as an emulsifier, thickener, solubilizer, and conditioner.

**REGULATORY**

**INCI:** Cetearyl Alcohol, Behentrimonium Methosulfate

**CAS:** 67762-27-0, 81646-13-1

**HS/TARIFF CODE:** 3823.70.4000

**SPECIFIC PRODUCT DATA**

**PENETRATION:** IBT, 60-70°C  IBT 50, 80-90°C

**MELT POINT:** < 5

**CONGEAL POINT:** White to Off-White

**ACID VALUE:** White

**SAPONIFICATION VALUE:** Pastille

**COLOR:** Pastille

**PRODUCT FORM:** Pastille

**PACKAGING:** 25kg Carton

**PALLET SIZE:** 800kgs Net
### KOSTOL NATURAL E
**WAX # 414P**
**Natural Emulsifier**

**GENERAL INFORMATION**
Kostol Natural E is an emulsifying wax based on high molecular weight, naturally derived compounds. Kostol BAQ is a blend of high molecular weight fatty alcohols possessing strong emulsifying properties when combined with Quats and Beheneth-5.

- **Hair Care, Sunscreens, After Sun Care, Creams, Lotions, Make-ups and Mascaras**
- **Kostol Natural E functions as a natural solubilizer for W/O and O/W, mild thickener, solubilizer, and skin conditioning. Kostol Natural E is soluble in most cosmetic raw materials used in the emulsion oil phase.**

### WAXES

#### MICROCRYSTALLINE WAXES

- Microcrystalline Wax is a waxy solid, white or slightly yellowish, produced by the refining of petroleum. Its composition varies, but it is generally composed of hydrocarbons with some straight chain hydrocarbons present.
- **Microcrystalline wax is often used in applications such as cosmetics, pharmaceuticals, textiles, floor polish, lubricants, adhesives, rubber, candles, printing ink, corrugated board, and castings.**
- **Cosmetics, Pharmaceuticals, Fruits, Cheeses, and Vegetables:** Food Packaging, Textiles, Paper, Fiberboard, Wood, Potting Compounds for Condensers, Floor Polishes, Furniture, Skis, Leather, Rust Prevention, Printing Inks, and Lubricants
- **Microcrystalline Waxes are non-toxic and non-irritating to the skin and eyes. They are compatible with mineral waxes, vegetable waxes, esters, and all their oils.**

### SPECIFIC PRODUCT DATA

<table>
<thead>
<tr>
<th><strong>KOSTOL NATURAL E</strong></th>
<th><strong>WAX # 414P</strong></th>
<th><strong>Natural Emulsifier</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL INFORMATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Kostol Natural E is an emulsifying wax based on high molecular weight, naturally derived compounds. Kostol BAQ is a blend of high molecular weight fatty alcohols possessing strong emulsifying properties when combined with Quats and Beheneth-5.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-95</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White To Light Tan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REGULATORY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Behenyl Alcohol, Polycycolyl-3 Stearate**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>661-19-8, 37349-34-1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3823.70.4000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>55-70°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-95</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White To Light Tan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### KOSTOL PGP
**WAX # 402P**
**Emulsifier**

**GENERAL INFORMATION**
Kostol PGP is a new lower HLB emulsifying wax based on a blend of high molecular weight compounds. This higher molecular weight emulsifier produces emulsions with 3-5% usage levels in water. This wax creates emulsions that are creamy in consistency, very light and hydrating on the skin and with viscosities ranging from 2500-4500 cps.

- **Hair Care, Sunscreens, After Sun Care, Creams, Lotions, Make-ups and Mascaras**
- **Kostol PGP functions as an emulsifier for W/O and O/W, mild thickener, solubilizer, and skin conditioner. Kostol PGP is soluble in most cosmetic raw materials that are common in the emulsion oil phase.**

### SPECIFIC PRODUCT DATA

<table>
<thead>
<tr>
<th><strong>KOSTOL PGP</strong></th>
<th><strong>WAX # 402P</strong></th>
<th><strong>Emulsifier</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL INFORMATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Kostol PGP is a new lower HLB emulsifying wax based on a blend of high molecular weight compounds. This higher molecular weight emulsifier produces emulsions with 3-5% usage levels in water. This wax creates emulsions that are creamy in consistency, very light and hydrating on the skin and with viscosities ranging from 2500-4500 cps.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-95</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White To Off-White</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REGULATORY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Polyglyceryl-3 Stearate, Beheneth-5**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>37349-34-1, 136207-49-3</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3402.13.20</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>75-95°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-105</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Off-White To Light Tan</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### KOSTOL TBP
**WAX # 403P**
**Emulsifier**

**GENERAL INFORMATION**
Kostol TBP is a new higher HLB emulsifying wax created by blending high molecular weight compounds. This higher molecular weight emulsifier produces emulsions with 3-5% usage levels in water. This type of emulsion is creamy in consistency, very light and hydrating on the skin and produces emulsions with viscosities ranging from 7000-10,000 cps.

- **Hair Care, Sunscreens, After Sun Care, Creams, Lotions, Make-ups and Mascaras**
- **Kostol TBP functions as an emulsifier for W/O and O/W, mild thickener, solubilizer, and skin conditioner. Kostol TBP is soluble in most cosmetic raw materials that are common in the emulsion oil phase.**

### SPECIFIC PRODUCT DATA

<table>
<thead>
<tr>
<th><strong>KOSTOL TBP</strong></th>
<th><strong>WAX # 403P</strong></th>
<th><strong>Emulsifier</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GENERAL INFORMATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Kostol TBP is a new higher HLB emulsifying wax created by blending high molecular weight compounds. This higher molecular weight emulsifier produces emulsions with 3-5% usage levels in water. This type of emulsion is creamy in consistency, very light and hydrating on the skin and produces emulsions with viscosities ranging from 7000-10,000 cps.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-105</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White To Off-White</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REGULATORY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>** Behenyl Alcohol, Polyglyceryl-3 Stearate, Behenth-5, PEG-40 Hydrogenated Castor Oil**</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>661-19-8, 37349-34-1, 136207-49-3, 61788-85-0</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>3823.70.4000</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Specific Product Data</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>90-70°C</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;5</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>65-105</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>White To Off-White</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton 800kgs Net</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### MICROCRYSTALLINE WAXES

- **Microcrystalline Wax**
  - **63231-60-7**
  - **2712.90**

**REGULATORY**

- **Microcrystalline Wax**
  - **81231-68-7**
  - **2712.90**

**SPECIFIC PRODUCT DATA**

<table>
<thead>
<tr>
<th><strong>MICROCRYSTALLINE WAXES</strong></th>
<th><strong>5-90</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5-80</strong></td>
<td></td>
</tr>
<tr>
<td><strong>145-188°F</strong></td>
<td></td>
</tr>
<tr>
<td><strong>143-197°F</strong></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>&lt;1</strong></td>
<td></td>
</tr>
<tr>
<td><strong>White to Light Yellow</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Pastille 25kg Carton Pastille, 28kg Carton Slab</strong></td>
<td></td>
</tr>
</tbody>
</table>
**KOSTER KEUNEN WAX COLLECTION**

**NATURALATUM® WAX# 587B**
Natural Petroleum Replacement

**GENERAL INFORMATION**
NaturalAtum has been designed to replace petrolatum in cosmetic formulations. NaturalAtum consists of high molecular weight vegetable waxes dispersed into vegetable oils resulting in an amorphous gel. NaturalAtum does not contain petroleum hydrocarbon ingredients or hydrogenated vegetable oils, yet has physical and chemical properties similar to petrolatum.

NaturalAtum can be used as a base to formulate balms, creams, lotions, and salves.

**APPLICATIONS:**
NaturalAtum can be used in all types of cosmetic preparations where petrolatum is used.

**ADVANTAGES:**
NaturalAtum improves thermal stability, emollience, lubricity and acts as a plasticizer. NaturalAtum reduces moisture loss and creates barrier properties in cosmetic products.

**REGULATORY**

**INCI:** Canola Oil, Ricinus Communis (Castor) Seed Oil, Polyhydroxystearic Acid, Euphorbia Cerifera (Candelilla) Wax, Helianthus Annuus (Sunflower) Seed Wax, Vitamin E

**CAS:** 8002-13-9, 8001-79-4, 27924-99-8, 8006-44-8, 999999-99-4, 58-95-7

**HS/TARIFF CODE:** 1516.20

**SPECIFIC PRODUCT DATA**

| PENETRATION: | 100-400 |
| MELT POINT: | 5-60°C |
| CONGEAL POINT: | 45-58°C |
| ACID VALUE: | |
| SAPONIFICATION VALUE: | |
| COLOR: | Light Yellow to Light Brown |
| PRODUCT FORM: | Semi Solid |
| PACKAGING: | 25kg Pail |
| PALLET SIZE: | 480kg Pallets |

**ORANGE PEEL WAX WAX# 139B**
Emollient

**GENERAL INFORMATION**
Orange Wax is an all natural semi-solid wax derived from the rind of the orange and through physical processing (no chemical reactions or solvent extraction). Koster Keunen has produced the first commercially available fruit wax. The wax in the peel of the fruit protects the fruit against the environment while at the same time allowing the orange to breathe and maintain its essential water balance. This wax offers similar protection to the skin. Orange wax is an emollient with an excellent skin feel. The phytosterols in orange wax are co-emulsifiers, which aid in stabilizing emulsions. The color and fragrance are distinctive of the fruit.

**APPLICATIONS:**
Orange Wax is an all natural semi-solid wax derived from the rind of the orange and through physical processing (no chemical reactions or solvent extraction). Koster Keunen has produced the first commercially available fruit wax. The wax in the peel of the fruit protects the fruit against the environment while at the same time allowing the orange to breathe and maintain its essential water balance. This wax offers similar protection to the skin. Orange wax is an emollient with an excellent skin feel. The phytosterols in orange wax are co-emulsifiers, which aid in stabilizing emulsions. The color and fragrance are distinctive of the fruit.

**ADVANTAGES:**
Sunscreen Enhancer, Anti-Oxidant, Anti-Inflammatory, Moisturizer, Emollient

**REGULATORY**

**INCI:** Citrus Aurantium Dulcis (Orange) Peel Wax

**CAS:** 144514-51-2

**HS/TARIFF CODE:** 1521.10.0060

**SPECIFIC PRODUCT DATA**

| POSSITION: | 35-60°C |
| MELT POINT: | 30-55°C |
| CONGEAL POINT: | 70-110 |
| ACID VALUE: | 10-30 |
| SAPONIFICATION VALUE: | |
| COLOR: | Orange to Brown |
| PRODUCT FORM: | Semi-solid |
| PACKAGING: | 20kg Pail |
| PALLET SIZE: | 480kg Pallets |

**OZOKERITE® Gelant**

**GENERAL INFORMATION**
Ozokerite Waxes are blends of hydrocarbon waxes. The name is a reference to its origin as a wax by-product of bituminous coal mining.

Ozokerite Wax is generally a white, crystalline, odorless and tasteless solid. It is most often made from blends of paraffin and microcrystalline waxes combined to offer broader functionality than the constituent ingredients and is used extensively in personal care and cosmetic formulations.

**APPLICATIONS:**
All Cosmetics and Household Products

**ADVANTAGES:**
Non toxic, non-irritating, non-hazardous

**REGULATORY**

**INCI:** Microcrystalline Wax, Paraffin

**CAS:** 63231-60-7, 8002-74-2

**HS/TARIFF CODE:** 2712.90

**SPECIFIC PRODUCT DATA**

| PENETRATION: | 2-15 |
| MELT POINT: | 153-198°F |
| CONGEAL POINT: | 152-197°F |
| ACID VALUE: | |
| SAPONIFICATION VALUE: | |
| COLOR: | White to Off-White |
| PRODUCT FORM: | Pastille Slab |
| PACKAGING: | 25kg Carton Pastille, 28kg Carton Slab |
| PALLET SIZE: | 480kg Pallets |
**Paraffin Waxes**

**Thickener**

Paraffin Waxes are used in various grades differing from one another in melting point and in the
distribution of hydrocarbons. Straight chain saturated hydrocarbons are the predominant functionality
with small amounts of unsaturated and branched hydrocarbons.

Paraffin Waxes are non-toxic and non-irritating
to the skin and eyes

**PEG-8 Beeswax**

**WAX# 202P**

**Emulsifier**

PEG-8 Beeswax is a beeswax derivative created by the esterification of beeswax with polyethylene glycol,
where the free fatty acids of beeswax have been converted into polyethylene glycol esters. This
modified beeswax becomes self-emulsifying and has improved oil retention and oil gelling capabilities.

Emulsions, Sticks, Decorative Cosmetics, Hair Care,
Lotions, Ointments

This non-ionic, self-emulsifying wax acts as a co-emulsifier, improving stability, oil gelling,
consistency, pigment dispersion and it reduces crystallization. It improves product homogeneity,
stability and moisturizing properties and reduces occlusivity and tackiness. Stick: improves texture,
pigment distribution and suppresses migration of lipid and colour ingredients. It allows very high oil
contents in O/W formulations.

**PEG-12 Carnauba**

**WAX# 165P**

**Emulsifier**

PEG-12 Carnauba is a polyethylene glycol
derivative of natural Type 1 yellow carnauba wax. PEG-12 Carnauba is used as a thickening agent,
for film forming and emulsifying. It imparts a non-greasy feel to formulations, and gives the final product beneficial slip feel. PEG-12 Carnauba is a cost effective raw material that produces superior stability, film forming and imparts a non-waxy feel when compared with other conventional cosmetic ingredients. In emulsion systems, the high molecular weight monoesters (> C-60) are popular for their film forming and barrier properties. These monoesters are very easy to stabilize using the PEG-12 Carnauba.

Creams, Lotions, Sunscreens, Hair Conditioners,
Shampoos, Lipsticks, Make-ups, Mascara, Stick
Pencils, Ointments

Depending on the individual formulation, there are instances where the PEG-12 Carnauba will need
secondary emulsifiers to ensure complete emulsification.

Special orders can be made to incorporate other
ingredients into Permulgin D. This will produce a multi-functional wax with improved conditioning properties. Non-toxic and non-irritating.

**PEG-12 Carnauba**

**WAX# 165P**

**Emulsifier**

PEG-12 Carnauba is a polyethylene glycol
derivative of natural Type 1 yellow carnauba wax. PEG-12 Carnauba is used as a thickening agent,
for film forming and emulsifying. It imparts a non-greasy feel to formulations, and gives the final product beneficial slip feel. PEG-12 Carnauba is a cost effective raw material that produces superior stability, film forming and imparts a non-waxy feel when compared with other conventional cosmetic ingredients. In emulsion systems, the high molecular weight monoesters (> C-60) are popular for their film forming and barrier properties. These monoesters are very easy to stabilize using the PEG-12 Carnauba.

Creams, Lotions, Sunscreens, Hair Conditioners,
Shampoos, Lipsticks, Make-ups, Mascara, Stick
Pencils, Ointments

Depending on the individual formulation, there are instances where the PEG-12 Carnauba will need
secondary emulsifiers to ensure complete emulsification.

Special orders can be made to incorporate other
ingredients into Permulgin D. This will produce a multi-functional wax with improved conditioning properties. Non-toxic and non-irritating.

**PEG-12 Carnauba**

**WAX# 165P**

**Emulsifier**

PEG-12 Carnauba is a polyethylene glycol
derivative of natural Type 1 yellow carnauba wax. PEG-12 Carnauba is used as a thickening agent,
for film forming and emulsifying. It imparts a non-greasy feel to formulations, and gives the final product beneficial slip feel. PEG-12 Carnauba is a cost effective raw material that produces superior stability, film forming and imparts a non-waxy feel when compared with other conventional cosmetic ingredients. In emulsion systems, the high molecular weight monoesters (> C-60) are popular for their film forming and barrier properties. These monoesters are very easy to stabilize using the PEG-12 Carnauba.

Creams, Lotions, Sunscreens, Hair Conditioners,
Shampoos, Lipsticks, Make-ups, Mascara, Stick
Pencils, Ointments

Depending on the individual formulation, there are instances where the PEG-12 Carnauba will need
secondary emulsifiers to ensure complete emulsification.

Special orders can be made to incorporate other
ingredients into Permulgin D. This will produce a multi-functional wax with improved conditioning properties. Non-toxic and non-irritating.
### Description:

**Rice Bran Wax**
- **WAX# 224P**
- Structure

Self-Emulsifying Synthetic Carnauba is a unique wax blend that allows for simplification in formulating. This single wax is used for thickening, film forming and emulsifying, has a non-greasy feel, and gives the final product additional slip feel. Self Emulsifying Synthetic Carnauba is a cost effective raw material that produces superior stability, film forming and imparts a non-waxy feel when compared with other conventional carnauba wax blends. In emulsion systems, high molecular weight monoesters (>C-60), are popular for their film forming and barrier properties. In the past, these monoesters have been difficult to stabilize, no longer the case with our S.E. Carnauba. This unique new product allows the formulator to add functionality, improve film thickness, and increase water resistance.

- **Paints, Resin Blends, Inks, Tackifiers, Architectural Coatings, Automotive Coatings, Industrial Wood & Furniture Coatings, Polymer Additives, Floor Polishes, Textile Coatings, Emulsion Additives and Industrial Coatings**

### General Information

<table>
<thead>
<tr>
<th><strong>Description</strong></th>
<th><strong>Applications</strong></th>
<th><strong>Advantages</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Permulin EK II is a plant-based emulsifier. This wax enables the formulator to control stability, texture and the feel of the product with just one emulsifier.</td>
<td><strong>Creams, Lotions, Sun Care, Baby Care, Make-ups and Mascaras</strong></td>
<td>This natural vegetable wax derivative utilizes high molecular weight monoesters and the natural hydrocarbons of Candelilla wax to impart excellent moisturization properties to emulsions. By altering the concentration of Permulin EK II the consistency of an emulsion can be altered from lotions to creams without the typical ‘waxy’ occlusive feel.</td>
</tr>
<tr>
<td><strong>Rice Bran Wax</strong> has application in a wide variety of cosmetics, and foods as a thickener, binding agent, plasticizer, coating and gelling agent. Rice Bran Wax primarily consists of high molecular weight monostearins ranging from C-46 to C-66. Our domestically refined Rice Bran Wax is rendered of its color using natural carbons and clays. This method of refinement retains policosanols, phospholipids, phytosterols and squalene resulting in Rice Bran Wax of superior quality. Rice Bran Wax from Koster Keunen is winterized from Rice Bran Oil - not hydrogenated.</td>
<td><strong>Lipsticks, Lip Balms, Make-ups, Mascaras, Sun Care, Creams, Lotions, Bath Care, Fruit and Vegetable Coatings, Tablet Coating and Candy Coating, Lubricants Creams, Pills and Paper Glazing</strong></td>
<td>In sticks Rice Bran Wax contributes to hardness, texture, strength and mould release. Rice BranWax can be used as a substitute for carnauba and Candelilla Wax in many formulations. It has exceptional oil gelling properties in relatively small concentrations. Can be used in emulsions and to create new and interesting textures.</td>
</tr>
</tbody>
</table>

### Specific Product Data

<table>
<thead>
<tr>
<th><strong>Specific Product Data</strong></th>
<th><strong>InCI</strong></th>
<th><strong>CAS</strong></th>
<th><strong>HS/Tariff Code</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rice Bran Wax</strong></td>
<td>Candelilla/Ojibba/Rice Bran/ Polyglyceryl-3 Esters, Glyceryl Stearate, Cetearyl Alcohol &amp; Sodium Stearyl Lactylate</td>
<td>68953-55-9, 308605-98-7, 11059-07-3, 677782-27-0, 25383-99-7</td>
<td>8016-60-2</td>
</tr>
<tr>
<td><strong>Permulgin EK II Wax</strong></td>
<td>Gyrza Sativa (Rice) Bran Wax</td>
<td>8016-60-2</td>
<td>1521.10.0060</td>
</tr>
</tbody>
</table>

### Regulatory

- **InCI**: C-20-40 Alkyl Stearate, Beheneth 5, PEG-14 Stearate
- **CAS**: 68953-55-9, 308605-98-7, 11059-07-3, 677782-27-0, 25383-99-7
- **HS/Tariff Code**: 3404.90
Emulsion and Structure

SYNTHETIC CARNAUBA

SELF EMULSIFYING

Crystallization Inhibitor and Structure

WAX# 163P

SILICONYL BEESWAX

Crystallization Inhibitor

800kgs Net

25kg Carton

Pastille

70-90

<4.5

62-72°C

Siliconyl Beeswax is the esterification of beeswax with a high molecular weight silicone. By eliminating the free acids, gelling and oil-binding properties have been much improved. The special character of Siliconyl Beeswax lies in the fact that advantages of beeswax and silicones have been combined into one product. With Siliconyl Beeswax the advantages of silicones can be easily incorporated into a formulation, without worry of incompatibility.

REGULATORY

Bio-PEG-12 Dimethicone Beeswax

151661-97-1

3404.90.1000

SPECIFIC PRODUCT DATA

62-72°C

<4.5

70-90

Off White to Light Yellow

Pastille

25kg Carton

800kgs Net

SILICONYL CANDELILLA

WAX# 233P

Structure and Gloss

WAX# 163P

SILICONYL BEESWAX

800kgs Net

25kg Carton

Pastille

70-90

<4.5

62-72°C

Siliconyl Candelilla is a very convenient way to incorporate silicone into formulations. The silicone ester of candelilla eliminates the tendency of blooming in silicone oils, thereby increasing the stability of formulations.

Siliconyl Candelilla also reduces the tacky feel of silicone oils, and imparts a silky feel to the skin.

REGULATORY

Bio-PEG-12 Dimethicone Candelilla

210057-90-2

3404.90

SPECIFIC PRODUCT DATA

62-75°C

<3.5

45-95

Light Brown to Red Brown

Pastille

25kg Carton

800kgs Net

SILICONYL CARNAUBA

WAX# 355P

Thickener, Viscosity Modifier

WAX# 355P

SILICONYL CARNAUBA

800kgs Net

25kg Carton

Pastille

70-90

<4.5

62-72°C

Siliconyl Carnauba Wax is less crystalline than Carnauba Wax due to the addition of a plasticizer while retaining the hardness and melting point of the original natural wax. Reducing crystallization results in a raw material with greater application potential, improves stability and greater control in formulating.

REGULATORY

Carnauba Cerifera (Carnauba) Wax, Stearoyl Dimethicone

8015-86-9, 68554-53-0

3404.90

SPECIFIC PRODUCT DATA

78 - 85°C

<8

60 - 80

Light Brown to Red Brown

Pastille

25kg Carton

800kgs Net

SILICONYL CARNAUBA MILK

WAX# 558B

Film Former

WAX# 558B

CARNAUBA MILK

800kgs Net

20kg Pail, 200kg Drum

Pail, Drum

20kg Pail, 200kg Drum

24x40 Pails Per Skid

Siliconyl Carnauba Milk is a stable, <500nm wax dispersion with unique formulating advantages. This dispersion couples the properties of Carnauba Wax with Silicones to produce a multifunctional performance additive designed for cold formulating. Solids % 28.0-31.0

REGULATORY

Water, Copernicia Cerifera (Carnauba) Wax, Stearoyl Dimethicone, Dimethicone, Phospholipid, Phenoxyethanol, Caprylyl Glycol, Hexylene Glycol


3404.90

SPECIFIC PRODUCT DATA

Off White to Light Yellow

Pail, Drum

20kg Pail, 200kg Drum

24x40 Pails Per Skid

Siliconyl Carnauba Milk has application as a film former and functions at low usage levels between 2% and 10%. Siliconyl Carnauba Milk improves barrier properties, water repellency, slip, and diminishes surface imperfections.

REGULATORY

Water, Copernicia Cerifera (Carnauba) Wax, Stearoyl Dimethicone, Dimethicone, Phospholipid, Phenoxyethanol, Caprylyl Glycol, Hexylene Glycol
### General Information

**Siliconyl IBT Wax # 529P**

**Silicone Emulsifier**

**Description:**
Siliconyl IBT has been designed to produce a thick and radiant, easy spreading, luxurious feeling emulsion. Siliconyl IBT is a very light feel on the skin and yet is a high performing cosmetic emulsifier, barrier and moisturizer.

**Applications:**
Creams, Lotions, Conditioners, Shampoos, Pomades, Body Washes

**Advantages:**
Functions as an emulsifier, thickener, film former, slip aid, moisturizer, adds a brighter sheen to emulsions and conditioner.

**REGULATORY**
**INCI:** Cetearyl Alcohol, Behentrimonium Methosulfate, Bis-PEG-18 Methyl Ether Dimethyl Silane
**CAS:** 67762-27-0, 81854-13-1, 67846-47-3
**HS/TARIFF CODE:** 3823.10.4000

**SPECIFIC PRODUCT DATA**
**Penetration:** 60-70°C
**Melt Point:** 65-70°C
**Congeal Point:** 65-70°C
**Acid Value:**
**Saponification Value:**
**Color:** White to Off-White

**Product Form:** Pastille
**Packaging:** 25kg Carton
**Pallet Size:** 800kgs Net

---

**Siliconyl Polyethylene Wax # 189P**

**Viscosity Modifier**

**Description:**
Siliconyl Polyethylene is a mixture of polymers with unique formulating advantages. The starting point is a low melt point polyethylene to which silicone molecules are added.

**Applications:**
Creams, Lotions, Sun Care, Hair Care, Lipsticks, Lip Balms, Make-ups, Mascara, Eye Liners, Stick Pencils, and Antiperspirants

**Advantages:**
Siliconyl Polyethylene is used as a thickener and viscosity modifier. It is used to add hardness and slip, as a gelling agent, and as a melting point modifier.

**REGULATORY**
**INCI:** Polyethylene, Stearoxy Dimethicone
**CAS:** 9002-88-4, 68554-53-0
**HS/TARIFF CODE:** 3901.10.50

**SPECIFIC PRODUCT DATA**
**Penetration:** 60-70°C
**Melt Point:** 65-70°C
**Congeal Point:** 65-70°C
**Acid Value:**
**Saponification Value:**
**Color:** White

**Product Form:** Pastille
**Packaging:** 25kg Carton
**Pallet Size:** 800kgs Net

---

**Siliconyl Polyethylene PC-38 Wax # 447P**

**Film Forming**

**Description:**
Siliconyl Polyethylene PC-38 is a new wax with many unique formulating advantages. It is designed to reduce the hardness of finished products without lowering the melting point or gelling properties of the finished product.

**Applications:**
Creams, Lotions, Sun Care, Hair Care, Lipsticks, Lip Balms, Make-ups, Mascara, Eye Liners, Stick Pencils, and Color Cosmetics

**Advantages:**
Siliconyl Polyethylene PC-38 is used for its superior film forming properties. It creates a creamy, low viscosity gel with a great non-occlusive skin feel and slip. Siliconyl Polyethylene PC-38 is a proven dispersing aid for sunscreens and provides up to a 10% boost of UVA/UVB ratios. In color cosmetics, it adds gloss and transfer resistant properties.

**REGULATORY**
**INCI:** Polyethylene, Hydrogenated Polycyclopentadiene, Stearoy Dimethicone
**CAS:** 9002-88-4, 68132-00-3, 68554-53-0
**HS/TARIFF CODE:** 3901.10.50

**SPECIFIC PRODUCT DATA**
**Penetration:** 60-70°C
**Melt Point:** 65-70°C
**Congeal Point:** 65-70°C
**Acid Value:**
**Saponification Value:**
**Color:** White

**Product Form:** Pastille
**Packaging:** 25kg Carton
**Pallet Size:** 800kgs Net

---

**Siliconyl IBT Wax # 529P**

**Silky Emulsifier**

**Description:**
Siliconyl IBT has been designed to produce a thick and radiant, easy spreading, luxurious feeling emulsion. Siliconyl IBT has a very light feel on the skin and yet is a high performing cosmetic emulsifier, barrier and moisturizer.

**Applications:**
Creams, Lotions, Conditioners, Shampoos, Pomades, Body Washes

**Advantages:**
Functions as an emulsifier, thickener, film former, slip aid, moisturizer, adds a brighter sheen to emulsions and conditioner.

**REGULATORY**
**INCI:** Cetearyl Alcohol, Behentrimonium Methosulfate, Bis-PEG-18 Methyl Ether Dimethyl Silane
**CAS:** 67762-27-0, 81854-13-1, 67846-47-3
**HS/TARIFF CODE:** 3823.10.4000

**SPECIFIC PRODUCT DATA**
**Penetration:** 60-70°C
**Melt Point:** 65-70°C
**Congeal Point:** 65-70°C
**Acid Value:**
**Saponification Value:**
**Color:** White to Off-White

**Product Form:** Pastille
**Packaging:** 25kg Carton
**Pallet Size:** 800kgs Net
**Sunflower Wax Beads (Colored)**

Sunflower Wax Beads are made of naturally derived, high molecular weight monoesters ranging from C36-C46 with colorants. These round exfoliating beads are available in a variety of colors and mesh sizes. Custom Pantone colors can be made to order with a minimum purchase. Available mesh sizes 20-40, 20-60, 40-60, in white, green, blue, yellow & red.

**Specifications**
- **WAX#**: 258G
- **Color**: Light Yellow to Light Brown
- **Melt Point**: 74-77°C
- **Form**: Beads (Colored)
- **<s>**
- **78-92**
- **Light Yellow**
- **Granules**
- **25kg Carton**
- **800kgs Net**

**Applications**
- Cleansing Creams & Lotions, Gels Bath, Soaps, Bath Cleansers, Facial and Body Scrubs
- Lipsticks, Lip Balms, Mascara and Decorative Cosmetics, Emulsions, Creams, Lotions

**Regulatory**
- Helianthus Annuus (Sunflower) Seed Wax
- **References**: 68937-99-5, 1521.10.0080

**Synthetic Beeswax/RSB Wax# 122P, 153P**

Synthetic Beeswax has been designed to be a functional equivalent to Beeswax in some applications. If natural Beeswax is not required at a certain cost, the synthetic can be incorporated into your formula while realizing cost savings of using this lower cost new material.

**Specifications**
- **WAX#**: 122P, 153P
- **Color**: Yellow to Light Brown
- **Melt Point**: 44-66°C
- **Form**: Beads (Colored)
- **<s>**
- **78-92**
- **Light Yellow**
- **Granules**
- **25kg Carton**
- **800kgs Net**

**Applications**
- Creams, Lotions, Cold Creams, Depilatories; Furniture, Wood, and Leather Finishes; Candles, Lubricants, Moldings, Lithography, Non-food Inks and Coatings and Industrial Emulsions

**Regulatory**
- Synthetic Beeswax
- **References**: 71243-51-1, 3402.13.20

**Synthetic Candelilla Wax WAX# 148P**

Synthetic Candelilla Wax is ideal for finished products where firm consistency and high melt point are important. Synthetic Candelilla Wax can also be emulsified when making in-situ soaps of the free fatty acids.

**Specifications**
- **WAX#**: 148P
- **Color**: Yellow to Light Brown
- **Melt Point**: 72.5-82.5°C
- **Form**: Beads (Colored)
- **<s>**
- **17-24**
- **93-103**
- **Granules**
- **25kg Carton**
- **800kgs Net**

**Applications**
- Baths, Soaps, Emulsions of various types
- Lipsticks, Lip Gloss, Lip Balms, Mascaras

**Regulatory**
- Synthetic Beeswax, Synthetic Wax, Stearic Acid
- **References**: 71243-51-1, 8002-74-2, 57-11-4, 3404.90
KOSTER KEUNEN WAX COLLECTION

SYNTHETIC JAPAN WAX
WAX# 112P
Structure in Sticks and Pencils

DESCRIPTION:
Koster Keunen’s Synthetic Japan Wax duplicates the physical and chemical properties of the natural Japan Wax which is extracted from the kernels of the Sumac Tree. Our synthetic has been very carefully formulated to an exact degree of purity during the manufacturing process.

APPLICATIONS:
Creams, Lotions, Lipsticks, Lip Balms, Stick Pencils, and Hair Pomades

ADVANTAGES:
Synthetic Japan Wax is a hard, brittle wax with a low melting point.

REGULATORY
INCI: Synthetic Japan Wax (C14-18) Trialkyl Glyceride
CAS: 67701-27-3
HS/TARIFF CODE: 3402.13.20

SPECIFIC PRODUCT DATA
PENETRATION: 49-56°C
MELT POINT: HM 96-100°C
CONGEAL POINT: 6-30
ACID VALUE: 206-237
SAPONIFICATION VALUE: 206-237
COLOR: White
PRODUCT FORM: Pastille
PACKAGING: 25kg Carton
PALLET SIZE: 800kgs Net

SYNTHETIC PARAFFIN HM/LM
WAX# 201P, 178P
Product Structure, Coatings

GENERAL INFORMATION
Synthetic Paraffin is a white, hard, high melt point wax consisting of polymerized hydrocarbons that have been refined to high purity levels. Synthetic Paraffin is a mixture of saturated straight chain paraffinic hydrocarbons. It is available in two grades, low melt point (LM) and high melt point (HM).

APPLICATIONS:
Cosmetics, Inks, Coatings, Drugs and Household Products

ADVANTAGES:
Synthetic Paraffins are used as a gelling agent and to modify viscosity and melting point. Synthetic Paraffins also have the ability to add hardness and slip to formulations.

REGULATORY
INCI: Synthetic Wax
CAS: 8002-74-2
HS/TARIFF CODE: 3404.90

SPECIFIC PRODUCT DATA
HM 96-100°C
LM 78-84°C
HM 96-100°C
LM 77-83°C
WHITE
White
White
Prill or Pastille
Prill or Pastille
Prill or Pastille

SYNTHETIC PARAFFIN MM
WAX# 565P
Thickener

GENERAL INFORMATION
Synthetic Paraffin MM is a white, hard, high melt point wax consisting of polymerized hydrocarbons that have been refined to high purity levels. Synthetic Paraffin MM is a mixture of saturated straight chain paraffinic hydrocarbons.

APPLICATIONS:
Cosmetics, Food, Drug and Household Products

ADVANTAGES:
Synthetic Paraffin MM is used as a thickener, viscosity modifier, adds hardness and slip, melting point modifier and gelling agent.

REGULATORY
INCI: Synthetic Wax
CAS: 8002-74-2
HS/TARIFF CODE: 3404.90

SPECIFIC PRODUCT DATA
86-100°C
Off White to White
Prill or Pastille
Prill or Pastille
Prill or Pastille

800kgs Net
800kgs Net
800kgs Net

SYNTHETIC PARAFFIN
WAX# 565P
Thickener
**GENERAL INFORMATION**

The Universal Cosmetic Base is a unique blend of waxes that can be used as a starting point for lipsticks, eyeliners, lip balms and anhydrous makeup.

Universal Cosmetic Base maintains its structure and keeps the texture of finished color cosmetics throughout a wide range of temperatures, from 15ºC to 50ºC. It has a low odor, is very temperature stable and holds its form, thus decreasing the likelihood of degradation, sineresis and oxidation.

The various waxes used in the Universal Cosmetic Base have strong gelling properties, strong plasticizing properties, and provide structure and stability.

Cosmetics, Lipsticks, Eyeliners, Lip Balms, Anhydrous Make-up

The Universal Cosmetic Base was developed so with small changes to a formula, the end product can be a creamy lipstick, an eyeliner, or a hot pour makeup, thus eliminating the need to inventory many individual raw materials. Because of the chemical functionality within this Universal Cosmetic Base it is now possible to make several different cosmetics using just one raw material, the cosmetic base from Koster.

**REGULATORY**

Vegetable Wax Natural is a proprietary blend of naturally derived waxes, butters and glycerides. Vegetable Wax Natural is compatible with a broad range of oils with excellent gelling capabilities. This all natural wax adds emollience to a formula without a greasy after feel.

Creams, Lotions, Lipsticks, Lip Balms, All Natural Formulations, Gel Caps


**SPECIFIC PRODUCT DATA**

<table>
<thead>
<tr>
<th>Universal Cosmetic Base</th>
<th>Vegetable Wax Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Structure</strong></td>
<td><strong>Structure</strong></td>
</tr>
<tr>
<td>Pastille</td>
<td>Pastille</td>
</tr>
<tr>
<td>25kg Carton</td>
<td>25kg Carton</td>
</tr>
<tr>
<td>800kgs Net</td>
<td>800kgs Net</td>
</tr>
<tr>
<td>12-22</td>
<td>44-54°C</td>
</tr>
<tr>
<td>88-98°C</td>
<td>5-25</td>
</tr>
<tr>
<td>Off White</td>
<td>180-225</td>
</tr>
<tr>
<td>White to Light Yellow</td>
<td>White to Light Yellow</td>
</tr>
</tbody>
</table>

68514-74-9, 8002-31-1, 540-10-3

1521.10.0060
<table>
<thead>
<tr>
<th>WAXES</th>
<th>Plasticizer</th>
<th>Barrier</th>
<th>Fine Forming</th>
<th>Water Resistance</th>
<th>Gelting Agent</th>
<th>Ship Aid</th>
<th>Emollient</th>
<th>Emulsifier</th>
<th>Sunscreen Enhancer</th>
<th>Dispersing Aid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beeswax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Candelilla Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carnauba Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rice Bran Wax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jojoba Wax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunflower Wax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butters</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cera Bellina</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behenyl Beeswax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emulsifying Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kostol Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kester Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beeswax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carnauba Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emulsifying Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orange Peel Wax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milks</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PEG-8 Beeswax</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emulsifying Carnauba Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Siliconyl Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ceresins</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ozokerites</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paraffin Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microcrystalline Waxes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synthetic Paraffins</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kostene C-30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wax#</td>
<td>Wax Name</td>
<td>Melt Point</td>
<td>Congealing Point</td>
<td>Penetration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>-------------------</td>
<td>-------------</td>
<td>------------------</td>
<td>-------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107</td>
<td>Ceresin 130/135</td>
<td>30-135˚F</td>
<td>129-135˚F</td>
<td>10-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>214</td>
<td>Ceresin 145</td>
<td>140-145˚F</td>
<td>139-144˚F</td>
<td>8-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>108</td>
<td>Ceresin 140/145</td>
<td>140-150˚F</td>
<td>139-149˚F</td>
<td>8-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>182</td>
<td>Ceresin 1556</td>
<td>165-175˚F</td>
<td>163-173˚F</td>
<td>5-12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>159</td>
<td>Ceresin 192</td>
<td>190-195˚F</td>
<td>189-194˚F</td>
<td>9-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>113</td>
<td>Ozokerite 152/160</td>
<td>153-160˚F</td>
<td>152-159˚F</td>
<td>8-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>248</td>
<td>Ozokerite Wax</td>
<td>155-165˚F</td>
<td>155-165˚F</td>
<td>8-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>116</td>
<td>Ozokerite 164/170</td>
<td>164-170˚F</td>
<td>162-169˚F</td>
<td>6-12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>117</td>
<td>Ozokerite 170</td>
<td>165-175˚F</td>
<td>165-175˚F</td>
<td>8-13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>451</td>
<td>Ozokerite 175</td>
<td>165-183˚F</td>
<td>165-183˚F</td>
<td>8-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>156</td>
<td>Ozokerite 180</td>
<td>177-185˚F</td>
<td>175-184˚F</td>
<td>2-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>237</td>
<td>Ozokerite 195</td>
<td>193-198˚F</td>
<td>192-197˚F</td>
<td>5-9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>318</td>
<td>Ozokerite 1090</td>
<td>193-198˚F</td>
<td>-</td>
<td>7-15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wax#</th>
<th>Wax Name</th>
<th>Melt Point</th>
<th>Congealing Point</th>
<th>Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td>196</td>
<td>Paraffin 127</td>
<td>127-130˚F</td>
<td>126-130˚F</td>
<td>11-17</td>
</tr>
<tr>
<td>125</td>
<td>Paraffin 130/135</td>
<td>130-135˚F</td>
<td>129-132˚F</td>
<td>11-18</td>
</tr>
<tr>
<td>168</td>
<td>Paraffin 133/142</td>
<td>133-142˚F</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>126</td>
<td>Paraffin 140/145</td>
<td>140-145˚F</td>
<td>139-144˚F</td>
<td>11-18</td>
</tr>
<tr>
<td>127</td>
<td>Paraffin 150/155</td>
<td>150-155˚F</td>
<td>149-154˚F</td>
<td>8-15</td>
</tr>
<tr>
<td>175</td>
<td>Paraffin 160/165</td>
<td>160-165˚F</td>
<td>159-164˚F</td>
<td>8-13</td>
</tr>
<tr>
<td>227</td>
<td>Microcrystalline 145/155</td>
<td>145-155˚F</td>
<td>143-154˚F</td>
<td>20-30</td>
</tr>
<tr>
<td>331</td>
<td>Microcrystalline 150</td>
<td>150-160˚F</td>
<td>148-162˚F</td>
<td>20-35</td>
</tr>
<tr>
<td>161</td>
<td>Microcrystalline 165/175</td>
<td>165-175˚F</td>
<td>163-175˚F</td>
<td>60-80</td>
</tr>
<tr>
<td>140</td>
<td>Microcrystalline 170/180</td>
<td>170-180˚F</td>
<td>169-179˚F</td>
<td>25-35</td>
</tr>
<tr>
<td>146</td>
<td>Microcrystalline 180/185</td>
<td>170-185˚F</td>
<td>170-178˚F</td>
<td>10-16</td>
</tr>
<tr>
<td>118</td>
<td>Microcrystalline 193/198</td>
<td>180-198˚F</td>
<td>192-197˚F</td>
<td>5-9</td>
</tr>
</tbody>
</table>