Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Product name: Vaseline

INCI name: Petroleum jelly

CAS: 8009-03-8

Chemical classification: Hydrocarbon

Functional category: Emollient, occlusive

Description: Vaseline (Petroleum jelly) is a semi-transparent, semi-solid substance, odorless. The color can vary from yellowish to light brown. It has a smooth and greasy texture, making it easily spreadable and suitable for application on the skin. It has a relatively high melting point, usually between 37°C and 40°C. It melts easily upon contact with the skin or exposure to heat. Vaseline has high viscosity, meaning it is thick and resistant to flow. The density is around 0.8 to 0.9 g/cm³. This property helps it adhere well to the skin or other surfaces. It is insoluble in water but dissolves in certain organic solvents, such as mineral oils and chloroform. Vaseline is mainly composed of long-chain hydrocarbons, predominantly saturated such as paraffin and microcrystalline wax. It is hydrophobic and chemically stable under normal conditions, meaning it does not readily react with other substances or undergo significant chemical changes. It has a long shelf life and does not spoil. It is relatively inert and non-reactive, making it safe for use on sensitive skin. It is unlikely to cause allergic reactions or skin irritation. It is considered biologically inert and widely used in the pharmaceutical industry, cosmetics, and medical products due to its compatibility with human skin and low toxicity or irritation. HLB value = 7

Action on the skin: Belongs to the group of occlusives, as does mineral oil. It has a 170 times greater effect on TEWL compared to olive oil. It is considered one of the best substances for hydration and is defined as the "gold standard", against which other occlusives are compared. It has been shown to be non-comedogenic. The hindrance to greater use of vaseline is its weak sensory profile, i.e., the greasy and sticky feeling that develops during and after application of products with a higher proportion of vaseline. It is combined with synthetic fatty materials (numerous emollients) to improve the spreadability of the formulation and enhance the textural and sensory characteristics of the product.

Avena Lab
Farmadria d.o.o. Since 1991.

Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Benefits:

• ***Hydration:*** Vaseline acts as an occlusive agent, forming a protective barrier on the skin's surface that helps retain moisture. It prevents skin dehydration. It is used as an ingredient in moisturizing creams, lip balms, and other skin care products.

• ***Protective barrier:*** The hydrophobic nature of vaseline makes it an effective barrier against external irritants and aggressive environmental agents. It helps protect the skin from adverse weather conditions, pollution, and other external factors, reducing the risk of irritation and inflammation.

• ***Healing properties:*** Vaseline has emollient properties that help soothe and heal dry, cracked, or irritated skin. It can help treat minor cuts, burns, and injuries by forming a protective barrier over the affected area, promoting faster healing.

• ***Makeup removal:*** Vaseline can be used as a gentle and effective makeup remover, especially for waterproof or long-lasting products. It helps remove makeup without damaging the skin's natural oils, leaving it soft and hydrated.

• ***Lip care:*** Due to its moisturizing and protective properties, it is often used in lip balms and lip care products. It helps soften and hydrate dry, chapped lips, providing relief from discomfort and improving the appearance of the lips.

• ***Hair care:*** Vaseline can add shine and hydration to the hair. It can be applied to the ends of the hair to retain moisture and prevent split ends. However, it should be used moderately to avoid buildup of oils.

• ***Eyelash and eyebrow care:*** Some people use vaseline to condition and hydrate eyelashes and eyebrows, promoting their growth and improving their appearance.

• ***Universality:*** Vaseline is a universal ingredient that can be incorporated into various cosmetic formulations, including creams, lotions, ointments, and serums. Its compatibility with other ingredients makes it a popular choice for formulators looking to enhance the effectiveness and texture of their products.

Method of use: It is a very common component of a large number of protective cosmetic creams, especially creams for dry skin. It protects exposed skin from drying out. Soothes the skin after shaving. It is used in the formulation of hair products and various sunscreens. It is a common ingredient in decorative cosmetics. If applied to the skin before applying perfume, the scent of the perfume will last longer. If mixed with a little sea salt, it can be used to remove dead skin cells. Excellent for chapped lips. After several applications on the skin around the nails, the skin will become softer and more elastic. Softens hard skin on feet and elbows.

Import and distribution for Serbia: Farmadria DOO
info@avenalab.com
+381 (0) 69 / 55 65 029
www.avenalab.com

TECHNICAL DATA SHEET

Typical concentrations: 5% to 20%. It is used only for external use.

Original raw materials obtained from: Crude oil. Semi-solid mixture of hydrocarbons (carbon number mostly greater than 25)

Method of obtaining: Petrolatum is obtained by fractional distillation of crude oil, followed by multi-stage purification.

Animal testing: Substance has not been tested on animals

GMO: Not GMO

Vegan: Does not contain components of animal origin