

# Personal Care

## Waxes and Petroleum Jellies



## Products for the Cosmetic and Pharmaceutical Industry

Our products are widely used in the cosmetic and pharmaceutical industry, where they are employed as processing aids, as a softener for adjusting hardness, in many lotions and creams (e.g. cleansing milk, lipid- replenishing cosmetics and sun protection agents). They act as the base for creams, lipsticks, rouge and eye cosmetics such as eyeshadow, eyebrow pencils and mascara.

Solid paraffin, microcrystalline waxes and petroleum jellies are essential components in formulations, as they have outstanding properties in terms of their protective action, colour and they work as a consistency regulator as well. They help to improve the health of the skin by protecting it from dehydration.

Other applications range from shaving foam, hot and cold depilatory waxes and thermal therapy, which make use of the outstanding heat-storing properties of paraffin waxes.



## MERKUR and VARA Pharmaceutical Petroleum Jellies

MERKUR and VARA petroleum jellies are ointment-like, nearly odorless, homogeneous mixtures of high-purity, hydrogenated, predominantly branched, saturated hydrocarbons. They come in snow-white, off-white and yellow pharmaceutical quality.

In the table we have indicated the extent to which the degree of purity is covered by various pharmacopoeias. In each case, reference is made to the latest monographs.

- MERKUR 773 and MERKUR 815 are very high-grade petroleum jellies with excellent oil-binding capacity, both compliant to European Pharmacopoeia and USP
- MERKUR 546 is particularly resistant to heat and suitable for countries with tropical climates.
- MERKUR 873 is a very pure petroleum jelly without any anti-oxidant.

MERKUR and VARA pharmaceutical petroleum jellies are mainly used for the following applications: base material for ointments, eye creams and haircare, the main ingredients of skincare creams, baby care, hand-cleansing pastes, body lotions, hand and skin creams and eye make-up. Due to their high purity, white pharmaceutical petroleum jellies are used in most applications today. As a responsible producer, Hywax promotes white petroleum jellies for pharmaceutical and cosmetic applications of all kinds.

In pharmaceutical applications, the products are used as excipients, base materials, active ingredient carriers and consistency regulators. Petroleum jellies are a component of many dermatological preparations.

# The purest Petroleum Jellies

## Effective Carrier for active ingredients

Typical Data

### Petroleum Jellies

Product	Lovibond color	Density 80°C kg/m <sup>3</sup>	Congealing Point °C	Consistency 25°C mm/10	Viscosity 100°C mm <sup>2</sup> /s	Drop point °C	Melting range °C	Full compliance with Pharmacopoeias
<b>Petroleum Jellies/ Petrolatum White</b>								
<b>VARA AB</b>	0.7 y max	820	50-55	165-185	9.0	35-70		Ph. Eur.
<b>VARA 4800</b>	1.0 y max	810	50-56	155-175	7.0	35-70		Ph. Eur.
<b>MERKUR 110</b>	0.5 y max	810	50-56	170-190	7.0	35-70		Ph. Eur.
<b>MERKUR 500</b>	0.5 y max	810	50-56	140-160	7.0	35-70		Ph. Eur.
<b>MERKUR 500 USP</b>	0.5 y max	810	45-55	140-160	6.0	35-70	38-60	Ph. Eur./ USP
<b>MERKUR 546</b>	1.0 y max	805	48-58	95-120	7.0	35-70		Ph. Eur.
<b>MERKUR 771</b>	1.0 y max	810	50-55	155-175	7.0	35-70		Ph. Eur.
<b>MERKUR 773</b>	0.5 y max	825	47-53	155-175	12.0	35-70	38-60	Ph. Eur./ USP
<b>MERKUR 815</b>	0.5 y max	825	48-56	160-180	12.0	35-70	38-60	Ph. Eur./ USP
<b>MERKUR 873</b>	0.5 y max	820	48-53	165-190	9.0	35-70		Ph. Eur.
<b>MERKUR 894</b>	0.5 y max	820	45-53	150-180	14.0	35-70		Ph. Eur.

<b>Petroleum Jellies/ Petrolatum Yellow</b>								
<b>MERKUR 620</b>	2.0 - 3.9	820	48-56	150-175	7.0	35-70	38-60	Ph. Eur./ USP*
<b>MERKUR 690</b>	20-35	820	50-56	140-160	8.0	35-70	38-60	Ph. Eur./ USP*
<b>MERKUR 1411</b>	10-13	820	48-56	150-175	7.0	35-70	38-60	Ph. Eur./ USP*

\*Product complies with the purity requirements of USP, Ph. Eur and FDA (21 CFR 172.880)

## Petroleum Jelly

### The universal excipient protecting skin from dehydration

For cosmetic and pharmaceutical formulations, we recommend the use of our white and yellow types listed in the following table. Our yellow petroleum jellies are hydrogenated for highest purity, delivering white basic grades that are dyed with a vegetable food-grade colorant. The corresponding white basic petroleum jellies are fully compliant with the pharmacopoeias listed in the table.



## Body Care and Cosmetics Applications

	Body Care and Cosmetics Applications						
Petroleum Jellies/ Petrolatum White	Skin creams	Baby care	Body lotions	Fatty creams	Hair care & Hair styling	Ethnic hair care & hair relaxer	Lip care
VARA AB	•			•			
VARA 4800	•						
VARA 110	•	•	•	•			
MERKUR 500	•	•	•	•	•	•	
MERKUR 500 USP	•	•	•	•	•	•	
MERKUR 546	•				•	•	
MERKUR 771		•		•	•		
MERKUR 773	•				•		•
MERKUR 815	•	•	•	•			•
MERKUR 873	•			•			
MERKUR 894	•			•			•

Petroleum Jellies/ Petrolatum Yellow	Skin creams	Baby care	Body lotions	Fatty creams	Hair care & Hair styling	Ethnic hair care & hair relaxer	Lip care
MERKUR 620	•	•	•	•	•	•	
MERKUR 690	•			•	•	•	
MERKUR 1411	•		•	•	•	•	

## Pharmaceuticals and Veterinary Applications

Petroleum Jellies/ Petrolatum White	Pharmaceuticals Applications				Veterinary Products
	Creams, lotions, pastes, ointments	Cold rubs	Pain release ointments	Eye ointments	
VARA AB	•	•		•	
VARA 4800	•				
MERKUR 110	•		•	•	•
MERKUR 500	•				•
MERKUR 500 USP	•		•		
MERKUR 546	•		•		
MERKUR 771	•	•	•	•	•
MERKUR 773	•	•	•		
MERKUR 815	•	•	•	•	•
MERKUR 873	•	•	•		
MERKUR 894	•		•	•	

Petroleum Jellies/ Petrolatum Yellow	Creams, lotions, pastes, ointments	Cold rubs	Pain release ointments	Eye ointments	
MERKUR 620	•	•	•		•
MERKUR 690	•	•			•
MERKUR 1411	•	•	•		•

## Paraffin Wax and Microcrystalline Wax

Hard paraffin waxes are mainly used in the formulation of lipsticks, creams, lotions and make-up.

Soft paraffin waxes are used in the formulation of creams and lotions. HYWAX 5009 and 4610 are raw materials for hot and cold depilatory products and thermal therapy.

Microcrystalline waxes are used for the formulations of creams and lipsticks to adjust hardness/softness and solidification point. All microcrystalline waxes in this brochure comply with the Cosmetics Europe recommendations for lip care products.

Genuine ozokerite was found in connection with petroleum deposits, from which it was produced by mining. Purified ozokerite is known as ceresin. In cosmetic and pharmaceutical applications white, purified ceresin is still used to this day. However, there are now alternatives to ozokerites and ceresin, which are mixtures of different waxes with specific properties with regards to hardness, viscosity and penetration.

Ozokerites and ceresin alternatives are highly valued in creams and many other formulations because of their special oil-binding properties. They also help to stabilize emulsions and regulate viscosity, bind powders or preparations containing powder and help to give hair cosmetics antistatic and conditioning properties.

### Key benefits

- Due to their smoothness and low melting behavior, soft paraffin waxes are ideal for thermal therapy applications, such as hand baths
- Our microcrystalline waxes are compliant with the Cosmetics Europe (CE) recommendation No. 14
- Ozokerite and Ceresin alternatives help to stabilize emulsions



Typical Data  
**Paraffin Wax and Microcrystalline Wax**

Product	Congealing Point °C	Oil Content %	Penetration 25 °C mm/10	Viscosity 100 °C mm <sup>2</sup> /s	Compliance with Pharma- copoeia	INCI Name
<b>Hard Paraffin Waxes</b>						
HYWAX 5203	52-54	0.0-0.5	16-20	3.5 typ.	Ph. Eur.	Paraffin
HYWAX 5403	54-56	0.0-0.5	16-20	3.0-7.0	Ph. Eur.	Paraffin
HYWAX 5603	56-58	0.0-0.5	15-19	3.0-5.0	Ph. Eur.	Paraffin
HYWAX 5803	58-60	0.0-0.5	15-19	4.0-5.0	Ph. Eur.,USP/NF	Paraffin
<b>Soft Paraffin Waxes</b>						
HYWAX 4610	46-49	0.0-3.0	40-80	2.0-5.0		Paraffin, Micro- crystalline Wax
HYWAX 5009	50-52	0.0-2.0	40-60	3.0-5.0	Ph. Eur.	Paraffin, Micro- crystalline Wax
HYWAX 8021	44-48	0.5-3.0	60-100	2.0-5.0	-	Paraffin, Poly (C30-45 Olefin)
<b>Microcrystalline Waxes</b>						
HYWAX 0907	79-89	0.0-2.0	4-10	8.5-12.5 (120 °C)	-	Microcrystalline Wax, Paraffin, Synthetic Wax
HYWAX 1800	70-80	0.0-2.0	18-22	13.0-17.0	USP	Microcrystalline Wax
HYWAX 2528	70-75	0.0-4.0	25-35	12.0-16.0	USP	Microcrystalline Wax
HYWAX 3971	70-75	0.0-2.0	25-33	12.0-16.0	USP	Microcrystalline Wax
HYWAX 7837	70-80	2.0-4.0	40-60	13.0-17.0	USP	Microcrystalline Wax
<b>Ozokerite/ Ceresin Alternatives</b>						
HYWAX 3977	69-72	-	14-18	6.0-7.5 (mPas)	USP	Paraffin, Micro- crystalline Wax, Synthetic Wax
HYWAX 6403	62-66	0.0-0.5	16-22	5.5-7.0	-	Paraffin, Micro- crystalline Wax

## The Hywax Promise

Hywax supplies first-class products offering many benefits for the user. Our products are available all over the world. In addition, our technical expertise extends from Hamburg to all destinations, either directly or through our contacts and sales partners. Our production facilities and processes benefit from our constant efforts to improve and innovate. Our research and development are state of the art.

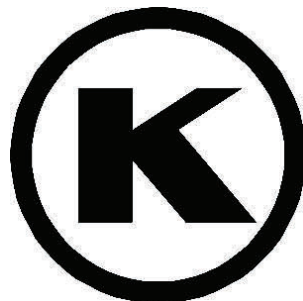


## State-of-the-art facilities

### Certified and approved quality

We have set the highest standards, especially for the filling of petroleum jellies. The drums are filled in new plants according to stringent hygienic requirements and to some extent under a protective atmosphere with filtered air in a closed system. In conjunction with production in a closed tank and piping systems, we are thus achieving a standard that has been given unrestricted approval by the German Association of Research-Based Pharmaceutical Companies (vfa) under the Joint Audit Program for Excipients (JAVfH).

It goes without saying that our company maintains an integrated management system. We are certified in accordance with DIN EN ISO 9001 (quality), DIN EN ISO 14001 (environment) and ISO 45001 (occupational health and safety).





# Contact us:

info@hywax.com  
+49 40 781150

## Hywax GmbH

Worthdamm 13-27  
20457 Hamburg  
Germany

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