Hard Paraffin Wax
The Sasol Group is the leading specialist worldwide for mineral and synthetic paraffin waxes and related products such as petroleum jelly and emulsions. Sasol Wax products are used in a wide variety of markets and finished products.

02  At a glance ...

Sasol Wax products are supplied world-wide in many different markets.

03  Uses of paraffin wax in Personal Care

The applications for paraffin include candle production, rubber and tire manufacture, chipboard, plastics, packaging materials and printing inks. Many other applications are known. One major field of application is their use in cosmetics, personal care products, beauty products, wellness articles and pharmaceutical preparations. These applications are handled by the Personal Care Business Unit of Sasol Wax GmbH, and this brochure shows you the extensive product portfolio of paraffin wax for these purposes.

In cosmetics/personal care and pharmaceuticals, our products are used in skin creams, lotions, pastes, ointments and pharmaceutical base creams. Another area is the manufacture of hair-styling products, especially in the ethnic hair care field, and also lipsticks and lip care products, mascara sticks, decorative sticks, eyeliners and other beauty articles.

Especially paraffin waxes with a high congealing point, which today are only rarely referred to as carnae/ozokerites, are – with their higher isoparaffin content – very well suited to improving oil bonding and stabilizing formulations. They bind powders and have a conditioning effect in hair-styling products.

Essentially, the function of paraffin wax is almost always that of a regulator in a formulation with other constituents such as petroleum jelly, liquid paraffin or other basic components. The benefits of paraffin wax are:

- Easy modification/control of dropping point and melting point
- Easy modification/control of viscosity and consistency, creates structure and form in harder recipes
- Modification of gloss
- Carrier functions and contribution to occlusive effect of creams
- Paraffin wax interacts with other constituents to form a base material, e.g. for veterinary products
- Stabilization of emulsions, improvement of oil binding

INCI name: Paraffin

Uses in lip care

In relatively rare cases paraffin wax is used in lip care. Here individual applications are permitted by national regulations. We will be glad to help you by discussing such applications in individual cases and their regulatory issues.
Hard Paraffins build up their function in cosmetic and pharmaceutical formulations by interaction with further components.
**Chemical structure**

The gas chromatogram of Sasolwax 5006 shows the typical distribution of the C chains.*

Gas chromatography analysis can be used to detect the chemical structure of hydrocarbons. The chromatogram shows the typical distribution of hydrocarbons (C chain distribution) and the proportion of n- and iso-paraffins. Graphs of this type and details of C chain distribution are not a constituent part of specifications because natural fluctuations in the raw materials would prohibit this.

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**Approvals, Physical form as supplied & Storage life**

Other national and international approvals and equivalents

The products in our program meet the following national and international requirements:

- The pharmacopoeia monographs
  - Europe: Ph. Eur.
  - USA: USP/NF
  - Japan: JP
- The cosmetics directives
- For applications for the manufacture of materials in contact with foodstuffs
  - Europe: EU Directive 1935/2004/EG and others
  - Germany: BfR recommendations XXV. and others
  - USA: FDA 21 CFR Section 172.886 and others

Physical form as supplied, storage life and storage conditions

Paraffin wax is available as pastilles, slabs, powder, or in liquid form (warm) in tank cars. We will be glad to hold direct discussions with you to clarify the exact sizes, weights and other terms of delivery.

Paraffin waxes can be kept for 5 years after manufacture. They must be stored in sealed containers at room temperature in clean, dry conditions, and must not be exposed to direct sunlight. In particular, high temperatures can lead to slabs clinging together, which makes processing difficult or impossible.

Fact Sheet

Do you know our Fact Sheet?

Thanks to the unique hydrogenation quality of our paraffin waxes, the high quality standards of Sasol Wax, and what we call the “Sasol Wax difference”, we can genuinely claim to ensure numerous other product properties that are valued by our customers in the pharmaceutical and cosmetic sectors.

Our Fact Sheet provides a collection of relevant facts and also answers many questions. You can download it from our website www.sasolwax.de. Or just contact us and we will send it to you by return. Look at the contacts shown in this brochure, or mail us on personalcare@de.sasol.com.

* Not a constituent part of specifications
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