

**sasol**  
reaching new frontiers



*insulation*

**Sasol Wax**  
Wax is all we do. So we do it best.



**Sasol Wax** is the leading specialist in innovative wax technology.

## *at a glance*

Paraffin wax is the major raw material for the production of candles and a wide variety of other applications such as rubber & tires, chipboard, food-processing and packaging, pharmaceuticals, cosmetics, inks paints & coatings, textiles as well as in road construction and many more.

For many decades Sasol Wax has focussed on the development of paraffin waxes and specialty wax blends for a lot of different industries. Due to the wide range of our products, we are able to offer solutions suitable for almost all production processes.

Micro and macro crystalline waxes are renown for a broad spectrum of applications. Their use ranges from rather simple applications to process oriented tailor-made products for state of the art production equipment. Specialties are created for innovative solutions.

Refined paraffin waxes are mixtures of saturated hydrocarbon, purified by modern, environmentally friendly technologies. All our products are constantly monitored by a stringent quality control and are non-toxic. Their environmental properties are characterized by good biodegradability and non-cumulative effects.





## *mineral fibre*

### *HydroWax Emulsions*

HydroWax is the trademark of Sasol Wax water based oil emulsions and wax dispersions. Globally available at consistent quality these products are manufactured at five production sites in Europe, USA and South Africa.

Typical applications are within the paper, construction, latex and chemical industry. In addition highly specialized formulations are used in the packaging, wood processing and ceramic industry.

### *HydroWax in Mineral Fibre*

HydroWax 88, based on high viscosity hydrocarbon oils, is known as the benchmark for effective dust binding in European mineral fibre production. Due to highest requirements on raw materials, HydroWax 88 minimises evaporation and deposits. Thus it provides longest maintenance and cleaning intervals at the production line.

HydroWax 85 is based on wax – oil blends, also giving excellent dust binding properties at reduced costs.

HydroWax 87 was developed as an alternative to the hydrocarbon based dust binding agents. This emulsion is based on natural and

renewable sources and gives the opportunity for sustainable binder formulations.

With a high solid content all formulations provide highest efficiency on emulsion related technology: Carefully adjusted particle sizes provide excellent wettability and adhesion. Active ingredients with a flash point of about 300 °C and practically no short chain hydrocarbons give a surplus of safety in the curing sector.

Long term stability of about 6 months is achieved by combination of a special emulsifier system with processing in a state of the art high pressure homogenising unit. HydroWax 88, 85 and 87 are widely tolerant regarding pH, dilution and different binder systems. Therefore the impact on other binder components or vice versa is very limited, which supports safe and constant fibre maths production. The emulsion's character is being almost shear tolerant with very little foaming tendency. Thus giving options for dosing, measuring and mixing equipment.

Sasol Wax provides state of the art technology. As a consequence, HydroWax formulations are free of formaldehyde and are an excellent additive in formaldehyde free binder and insulation materials.

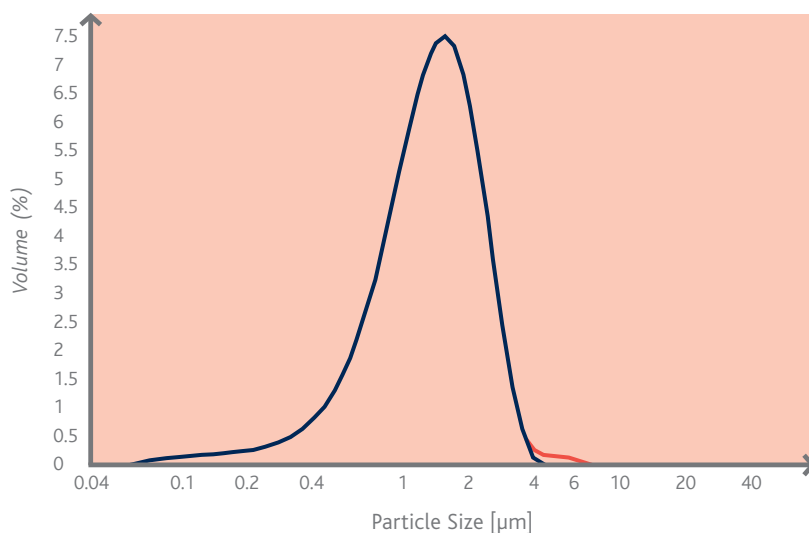
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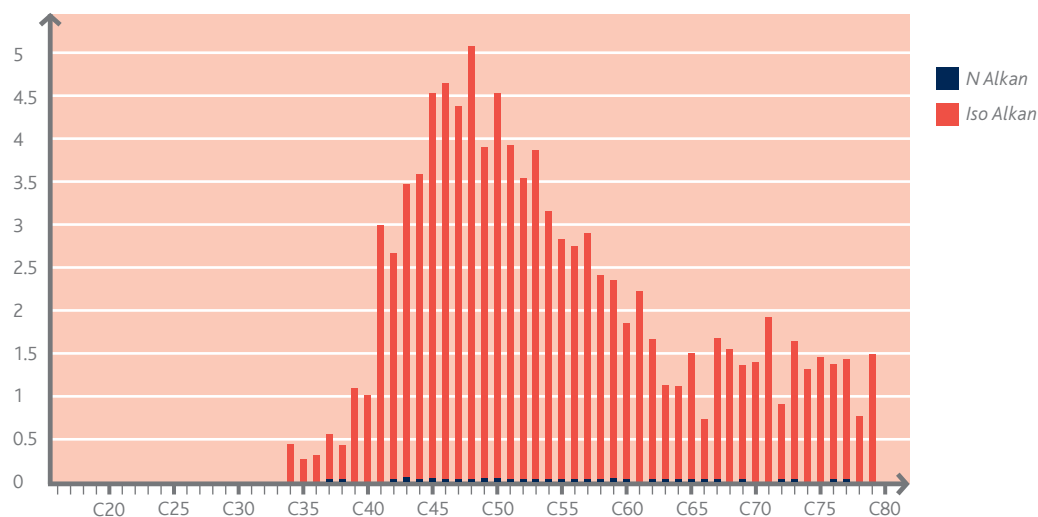


|             | Water Content<br>[%] | Viscosity<br>typical<br>[mPa · s] | pH<br>typical | Emulsifier          | Basis           |
|-------------|----------------------|-----------------------------------|---------------|---------------------|-----------------|
| HydroWax 88 | 45 - 49              | 1000                              | 7             | Anionic/acid stable | Hydrocarbon oil |
| HydroWax 87 | 46 - 50              | 1100                              | 7             | Anionic/acid stable | Natural oil     |
| HydroWax 85 | 46 - 50              | 1100                              | 7             | Anionic/acid stable | Waxy oil blend  |

Typical particle size distribution of Hydrowax: In Average around 1 micron providing excellent wettability and effective dust binding



Typical GC of hydrocarbon oil for HydroWax 88: Practically absence of hydrocarbon below C25 preventing evaporation and oily deposits in the curing sector







*Wax solutions for every process*



## global contacts



[www.sasolwax.com](http://www.sasolwax.com)

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