

sasol
reaching new frontiers



food & agriculture

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.





food & agriculture

Sasol Wax products in food and agricultural applications are understood as processing aids and formulation additives in many different processes. They are used as inert carriers e.g. for colours, active ingredients and scents. They also enhance hydrophobic properties or act as sealing or release agents depending on the nature of the application. Sasol Wax products can also provide better consistency, enhance film forming capabilities or act as a temporary processing aid. Following just a few of the wide variety of these applications are shown.

Rodent Bait Carrier

Paraffin waxes are used for the formulation of rodent baits and function as a processing aid for extrusion and / or pressing. They are the carrier for the active ingredients. The paraffin wax needs to be perfectly odourless and tasteless so that the rodent will uptake the bait without suspicion.

Fishnet Protection

In the seawater fish farming industry, nets need to be protected against bio-fouling like algae and mussels. Fish cages stay at the surface as the farmer needs to feed and monitor the fish. Mussels and algae however are able to increase the nets' weight for sinking. Bio-fouling also may affect the water exchange which would have direct influence on fish health and quality.

A paraffin wax dispersion like HydroWax 730 is used as tolerant water born carrier for active ingredients. By drowning the nets in a formulation of HydroWax with incorporated active ingredients a waxy, flexible, sticky and water repellent film may be formed on the entire surface of the nets. This effectively protects the nets throughout the whole production cycle of the fish.

Grafting Wax and Extrusion Processing Aid

Microcrystalline waxes may provide consistency in grafting waxes which provide artificial bark in nurseries and orchards. The same wax type may also act as a lubricating aid in animal feed extrusion also providing water repellence and as a dust binder. As such it provides efficiency at relatively low processing temperatures. Microcrystalline wax therefore is used at very limited amount resulting in the required behaviour.

Fertilizer Dustbinding and Anticaking Coatings

In the fertilizer industry waxes and special blends are used as dust binders and conditioning agents. With our special range of dust binding waxes you are able to agglomerate the fines for a dust free handling of the fertilizer. As conditioners the waxes coat the particles and reduce moisture uptake due to deliquescence and therefore prevent eventual caking of the material.

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Rodent Baits

	Congeaing Point [°C]	Oil Content [%]	Penetration at 25 °C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 7040	68 - 72	0 - 0.5	11 - 15	6.0 - 7.0
Sasolwax 6403	63 - 66	0 - 0.5	16 - 20	5.5 - 6.5

Fish Farming

	Water Content [%]	Viscosity typical [mPa · s]	pH typical	Emulsifier
HydroWax 730	38 - 42	600	10	anionic / non ionic

Grafting Waxes and Extrusion of Animal Feed

	Congeaing Point [°C]	Oil Content [%]	Penetration at 25 °C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 7835	70 - 80	0 - 2.5	25 - 30	13 - 16

Fertilizer Coatings

	Congeaing Point [°C]	Oil Content [%]	Penetration at 25 °C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 6299	38 - 43		110 - 140	4.5 - 5.5
Sasolwax 3499	30 - 45			3.0 - 6.0
Sasolwax 6114	33 - 39			3.0 - 4.5
Sasolwax 3697	45 - 50			5.0 - 7.0
Sasolwax 6144	46 - 56		100 - 150	
Sasolwax 6141	48 - 52	0 - 4	40 - 70	

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Wax solutions for every process



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