

sasol
reaching new frontiers



paper & packaging

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.





paper & packaging

Paper and paper board are superior materials for packaging applications. This is because they are more resilient and economically viable than glass, plastics or metal. However, they exhibit only limited barrier properties for moisture, water, gases and odour. To enhance these properties paper products can be coated with waxes or laminated to plastic films or foils. Sasol Wax is able to offer a wide range of paraffin, microcrystalline and Fischer-Tropsch waxes suited to impregnate, laminate or coat different paper stocks. Our wax coatings for food packaging conform to the rules and regulations set out by both the „Bundesinstitut für Risikobewertung“ (BfR) and the Food and Drug Administration (FDA).

HydroWax emulsion

HydroWax emulsions are finely dispersed wax particles in water with a mean diameter of only a few microns. The products are commonly used for paper sizing. Internal sizing is performed by adding the emulsion directly to the stock at the wet end of the paper machine. This results in enhanced paper properties such as increased wet strength and a decreased propensity to linting. In many cases internal sizing with wax emulsions increases the efficiency of a following size press application.

	Water Content [%]	Viscosity [mm ² /s]	pH	Emulsifier
HydroWax 215	52 - 56	500	7.0	Anionic
HydroWax RV	48 - 52	1000	7.0	Anionic
HydroWax 46	38 - 42	300	7.5	Cationic

Coating waxes for flexible packaging

A variety of waxes can be offered for food packaging applications like papers for creams, meat and fruits or wrappers for candies and sweets as well as for various technical applications. They are usually made from fully refined paraffin or microcrystalline waxes as well as mixtures thereof. Paper coated with these waxes show enhanced barrier properties against moisture and odour. Additionally, due to the low viscosity of the waxes, low coating weights can be achieved.

	Congeeing Point [°C]	Penetration at 25°C [1/10 mm]	Oil Content [%]
Sasolwax 1357*	54 - 58	25 - 30	0 - 4
Sasolwax 2113	62 - 64	12 - 15	0 - 0.5
Sasolwax 4110	60 - 62	13 - 16	0 - 0.5
Sasolwax 4770*	44 - 48	50 - 80	6 - 12
Sasolwax 5603	56 - 58	15 - 19	0 - 0.5
Sasolwax 5803	58 - 60	15 - 19	0 - 0.5

* Not intended for food contact.

Sasol Wax is able to offer a wide range of waxes suited to impregnate, laminate or coat different paper stocks.



Coating waxes for more gloss

Bespoke properties can be obtained depending on the selection of the wax blends. These blends exhibit exceptional barrier properties, increased abrasion resistance and feature an enhanced glossy appearance. Depending on the formulation, abrasion resistance and viscosity can be adjusted individually. Gloss waxes are mainly used for edibles like sweets, candy, meat, poultry and vegetables as well as dairy products like cheese. Other papers may also be upgraded in function and design.

	Congeaing Point [°C]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 5511	60 - 65	8 - 15	9 - 13
Sasolwax 5814	75 - 85	10 - 15	60 - 70
Sasolwax 7579	70 - 80	11 - 13	40 - 50
Sasolwax 7852	65 - 75	10 - 14	78 - 88
Sasolwax 7853	75 - 85	8 - 14	110 - 130
Sasolwax 7855	75 - 85	8 - 12	200 - 220

Coating waxes for gloss and sealing abilities

Coatings manufactured with these waxes exhibit higher strength and hence abrasion resistance as well as an improved gloss impression. These special formulations are based on waxes and a variety of different additives. They are used to coat all different kinds of paper and board, which are used for a variety of packaging applications. Coated papers are used for wrapping all kinds of food like bread, ice cream and chewing gum. Paper and coated board with higher basis weights are key raw materials for the manufacture of disposable plates and soap wrappers as well as packaging for frozen food. In addition to the improved barrier property here the wax acts as a release agent.

	Congeaing Point [°C]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 1276	64 - 68	8 - 13	880 - 920
Sasolwax 5811	57 - 62	10 - 15	180 - 210
Sasolwax 5883	64 - 66	12 - 15	58 - 63
Sasolwax 7502		6 - 12	100 - 150
Sasolwax 7503		6 - 12	500 - 600

Laminating waxes

Sasolwax laminating waxes are used to bond different substrates to each other to form a composite material. These composites used in packaging applications exhibit superior barrier properties against moisture and fatty materials. Base materials for these laminates are typically paper, aluminium and plastic foils as well as parchment and parchment substitutes. Sasolwax laminating waxes are tailor made for different base materials and can be used for inductive cap sealing. The final products are used for butter, margarine, cheese, yeast, bullion cubes, chocolate and many more.

	Congeaing Point [°C]	Penetration at 25°C [1/10 mm]	Viscosity at 100 °C [mm ² /s]
Sasolwax 6908	65 - 70	35 - 45	20 - 30
Sasolwax 6915	66 - 70	20 - 30	65 - 80
Sasolwax 6920	65 - 75	35 - 45	25 - 35

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Wax solutions for every process



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