

**sasol**  
*reaching new frontiers*



**Sasol Wax**

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

*Sasolwax Fischer-Tropsch Waxes*

# Sasolwax

## An introduction to Sasolwax Fischer-Tropsch Waxes

Sasol Wax produce superlative, high quality competitive wax products targeted at the needs of a variety of industries and application areas. Sasolwax is the trade name for the unique range of waxes produced by Sasol Wax's Fischer-Tropsch process. Sasolwax is synthetically produced in a controlled manner from carbon monoxide and hydrogen as feed. This results in its consistently high quality.

Sasolwax consists mainly of saturated, straight chain hydrocarbons with almost no branches. This linear structure of Sasolwax is responsible for the many desirable properties of Sasolwax.

The combination of a high melting point, low viscosity and excellent hardness, even at elevated temperatures, provides superior performance in a variety of applications. The waxes are inherently stable and may be exposed to heat for long periods with little deterioration in their properties.

State of the art fractionation, micronisation and modification render a wide range of waxes with different physical and chemical characteristics. Chemical modification yields products with unique characteristics. At the forefront of wax technology, dedicated wax research teams have developed a number of grades of Sasolwax to meet the specific needs of customers. Various grades comply to the USA Food and Drug Administration for contact with foodstuffs. These wax grades also comply with the relevant BGA regulations.

### Some of the applications include the following:

- Hot Melt Adhesives
- Printing inks, paints and varnishes
- Polishes
- Textiles
- Lubricants for the processing of plastics
- Electrical insulating
- Paper conversion

Sasol Wax, with its reputation for reliability, is an accredited ISO 9001 supplier.

### Hot Melt Adhesives

Waxes play an important role in the manufacture, processing and performance of Hot Melt Adhesives. Sasolwax Fischer-Tropsch waxes have made them the waxes of choice

by many HMA producers worldwide. The high crystallinity and low viscosity of these waxes render them the perfect choice to lower the viscosity, control the open and set times as well as the flexibility and elongation properties of the adhesive.

### Inks & Coatings

Waxes are used as additives in printing inks primarily to improve the resistance of the ink film to rubbing and scuffing and to serve as a slip aid. Sasolwax waxes are an attractive alternative to polyethylene waxes in solvent and water based printing inks.

### Textiles

Using improved manufacturing technology, Sasol Wax has upgraded its range of oxidised Sasolwax Fischer-Tropsch waxes. These grades have been specifically developed to enhance processability, from easier emulsification and application through to final fabric performance in areas such as sewability, knittability, flex abrasion resistance and tear strength.

### Polymer Processing

Sasolwax waxes may be used as a competitive alternative to Polyethylene waxes in uPVC pipe and profile extrusion.

## Sasolwax Fischer-Tropsch Waxes

Unmodified Waxes	Sasolwax Grades	Congealing Point °C	Mettler Drop Pt, °C	Penetration @25 °C, dmm	Colour Appearance	Acid Value, mg KOH/g	Sap Value, mg KOH/g	Density @25 °C, g/cm <sup>3</sup>	Mol mass, g/mol	Supply Form	Ave/Max Particle Size, microns	Application Areas					
												HMA	PVC	IPC	POL	TXT	
Standard	H1	96-100	108-114	1	White	-	-	0.94	750	Flakes, Pellets, Coarse Powder	-	•	•	•	•	•	
	H1N6	96-100	108-114	1	White	-	-	0.94	750	Coarse Powder	400/1180		•				
	C105	102-108	114-120	<1	White	-	-	0.95	1300	Pellets	-			•			
	H105	102-108	114-120	<1	White	-	-	0,95	1300	Flakes	-		•				
Medium Melting	C80	78-83	>88	7	White	-	-	0.92	630	Pellets	-					•	
Micronised Waxes	Sasolwax Grades	Congealing Point °C	Mettler Drop Pt, °C	Penetration @25 °C, dmm	Colour Appearance	Acid Value, mg KOH/g	Sap Value, mg KOH/g	Density @25 °C, g/cm <sup>3</sup>	Mol mass, g/mol	Supply Form	Ave/Max Particle Size, microns	Application Areas					
Extra Fine	Spray 30	96-100	108-114	1	White	-	-	0.94	750	Sprayed Powder	6/20		•	•			
	Spray 105	102-108	114-120	<1	White	-	-	0.95	1300	Sprayed Powder	6/20			•			
	Aqua 30 S	>95	>105	<1,5	White	3-7	11-17	0.94	890	Sprayed Powder	6/20			•			
	Fine	Spray 40	96-100	108-114	1	White	-	-	0.94	750	Sprayed Powder	10/75			•		
		H1N4	96-100	108-114	1	White	-	-	0.94	750	Sprayed Powder	10/100			•		
Modified Waxes	Sasolwax Grades	Congealing Point °C	Mettler Drop Pt, °C	Penetration @25 °C, dmm	Colour Appearance	Acid Value, mg KOH/g	Sap Value, mg KOH/g	Density @25 °C, g/cm <sup>3</sup>	Mol mass, g/mol	Supply Form	Max Particle Size, microns	Application Areas					
Oxidised	A1	-	>99	4-8	Off white	27-29	50-60	0.95	660	Coarse Powder	2000*				•	•	
	A28	-	>103	<4	Off white	27-29	50-80	0.95	1200	Coarse Powder	2000*		•		•	•	
Saponified	A2	-	>102	<4	Pale yellow	9-13	25-40	0.96	660	Coarse Powder	2000*				•	•	
	A3	-	>100	<5	Pale yellow	8-12	25-40	0.98	660	Coarse Powder	2000*				•	•	
	AP5	-	>110	<2	Pale yellow	10-14	25-40	0.96	1090	Coarse Powder	2000*				•	•	
	A859	-	>105	<1,5	Off white	3-7	11-17	0.94	890	Coarse Powder	2000*			•			
Specialities	Sasolwax Grades	Congealing Point °C	Mettler Drop Pt, °C	Penetration @25 °C, dmm	Colour Appearance	Acid Value, mg KOH/g	Sap Value, mg KOH/g	Density @25 °C, g/cm <sup>3</sup>	Mol mass, g/mol	Supply Form	Ave/Max Particle Size, microns	Application Areas					
	B39	-	>109	<3	Pale yellow	12-16	25-40	0.94	970	Coarse Powder	400 / 1180		•				
	B52	-	>109	<2	Pale yellow	2-4	5-8	0.94	1025	Coarse Powder	400 / 1180		•				
Wax Dispersions	Sasolwax Grades	Congealing Point °C	Viscosity @25 °C, cP	Non-volatiles, mass%	Colour Appearance	Ionogeneity	Stability	Density @25 °C, g/cm <sup>3</sup>	pH	Supply Form	Ave/Max Particle Size, microns	Application Areas					
	B19	-	<20	29-31	Off white	non-ionic	good	0.98	7-8	Liquid	1/2					•	
	WE52	-	<300	39-41	Off white	non-ionic	good	0.98	8-9	Liquid	5/20					•	

\* No particle size distribution is done - product passed through 2mm sieve

Sasolwax waxes exhibits improved lubrication properties that is observed in increased fusion times, reduced fusion torque and increased stability times. These waxes are also extensively used in injection moulding, rubber extrusion and expanded polystyrene.

### Polishes

Polish producers use waxes to fulfil the basic function of polishes, i.e. protection, beautification and cleaning. Sasolwax waxes find application in a range of polishes that include the traditional solvent and emulsion pastes and liquid emulsion polishes.

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**DISCLAIMER:**

*This information is an indication of the scope of product application. Although is been made to the best of our knowledge, it is without guarantee. For information regarding product specification please see the „Product Data Sheet“ and „Material Safety Data Sheet“. All phraseology is our intellectual property right.*

**For Further Information:**  
[www.sasolwax.com](http://www.sasolwax.com)