Sasol Wax is the leading specialist in innovative wax technology.

An introduction to Sasolwax Fischer-Tropsch Hard Waxes

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

Sasolwax Fischer-Tropsch hard waxes consist mainly of saturated, straight chain hydrocarbons. This linear structure is responsible for their many desirable properties. The combination of a high melting point, low viscosity and excellent hardness, even at elevated temperatures, provides superior performance in a variety of applications. Sasolwax Fischer-Tropsch hard 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 Fischer-Tropsch hard waxes with different physical and chemical characteristics. Chemical modification yields products with unique characteristics.

At the forefront of wax technology our wax research teams have developed a number of grades of Sasolwax Fischer-Tropsch hard waxes to meet the specific needs of our customers. Various grades comply to the USA Food and Drug Administration and the German BfR for contact with foodstuffs.

Some of the applications for Sasolwax Fischer-Tropsch hard waxes include the following:

- Hot Melt Adhesives
- Printing Inks, Paints and Varnishes
- Polymer Processing
- Polishes
- Textiles

Sasol Wax GmbH, with its reputation for reliability, is an accredited ISO 9001, ISO 14001 and OHSAS 18001 supplier.
<table>
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<th>Sasolwax Grades</th>
<th>Congealing Point °C</th>
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<tr>
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<td>Spray 105</td>
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</table>

*Maximum Particle Size
The combination of a high melting point, low viscosity and excellent hardness, even at elevated temperatures, provides superior performance in a variety of applications.

Hot Melt Adhesives

Sasolwax Fischer-Tropsch hard waxes are excellent waxes for all HMA formulations. Their high crystallinity and low viscosity make them the perfect choice to reduce the viscosity, control the open and set times, improve heat stability, flexibility and elongation properties of the HMA.

Printing Inks, Paints and Varnishes

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 Fischer-Tropsch hard waxes are an attractive alternative to polyethylene waxes in solvent and water based printing inks.

Polymer Processing

Sasolwax Fischer-Tropsch hard waxes are excellent external lubricants for use during PVC processing due to their linear structure and their low viscosity. These properties lead to increased fusion time, reduced fusion torque and increased stability time. Sasolwax Fischer-Tropsch hard waxes are also used extensively in injection moulding, rubber extrusion and expanded polystyrene.

Textiles

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

Polishes

Polish producers use waxes to fulfil the basic function of polishes, i.e. protection, beautification and cleaning. Sasolwax Fischer-Tropsch hard waxes find applications in a range of polishes that include the traditional solvent and emulsion pastes as well as liquid emulsion polishes.
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