

Sasolwax C80 Fischer-Tropsch Hard Wax



Introduction

Sasol's Fischer-Tropsch hard waxes are synthetically produced by using gas-to-liquids (GTL) technology, in which Sasol is globally recognised as a commercial and technical pioneer. The GTL process uses natural gas to produce premium Fischer-Tropsch hard waxes.

Sasolwax C80 is a tailor-made Fischer-Tropsch hard wax, consisting mainly of linear, saturated hydrocarbons.

The combination of a narrow carbon distribution, linear molecular structure and the low viscosity of **Sasolwax C80** provides superior performance in a variety of applications:

- Hot Melt Adhesives
- PVC Processing
- Corrosion Protection
- Explosives

Hot Melt Adhesives

Coupled with the low viscosity, relatively high softening point, and high crystallinity, **Sasolwax C80** is an excellent choice of wax yielding exceptional all round properties in a hot melt adhesive formulation. Being highly compatible with typically used resins, EVA and metallocene polyolefin copolymers, **Sasolwax C80** is a one of a kind for lower temperature applications and shows exceptional elongation. It is therefore ideally suited to the requirements of modern hot melt adhesives, particularly in frozen food packaging applications.

PVC Processing

Sasolwax C80 is an excellent external lubricant for use during PVC processing due to its linear structure and its low viscosity. These properties lead to increased fusion time, reduced fusion torque and increased stability time.

Corrosion Protection

As a high melting point Fischer-Tropsch hard wax, **Sasolwax C80** is used to avoid melting or dripping behavior in corrosion protection formulations. This is of importance especially when the coating is exposed to warm conditions. Furthermore it is able to retain oils and additives without separation within the formulation. The physical structure of **Sasolwax C80** gives the formulation an upgrade in surface protection and whilst allowing for flexibility of the film.

Explosives

Thanks to its synthetic production process, the important parameters such as viscosity and congealing point of **Sasolwax C80** are well adjusted. These physical properties make it an ideal fuel in solid and packed emulsions explosives. **Sasolwax C80** provides constant plasticity and softening behaviour to the explosive ensuring safe handling and secured performance.

Available Forms of Supply

SUPPLY FORMS	20 KG BAG	600 KG BAG
Pastilles	●	●

WAX PROPERTIES	UNITS	TEST METHOD	SPECIFICATION	TYPICAL VALUES
Congealing point	°C (°F)	ASTM D 938	80 – 85 (176 – 185)	83 (181)
Drop melting point	°C (°F)	ASTM D 3954	93 max	88 (190)
Kinematic viscosity at 100°C (212 °F)	cSt	ASTM D 445	–	9.4
Penetration at 25 °C (77 °F)	0.1 mm	ASTM D 1321	4 – 9	7
Penetration at 65 °C (149 °F)	0.1 mm	ASTM D 1321	–	66
Colour	Saybolt	Sasol 2000	+ 15 min	+ 28
Oil content (MEK Solubles)	mass %	ASTM D 721	0.75 max	0.5
Molecular weight	Dalton	–	–	620

The specifications of **Sasolwax C80** are secured through our highly developed production technology. The management system including production is certified according to ISO 9001, ISO 14001 and OHSAS 18001.

Sasolwax C80 complies with the following regulations:

• **FDA CFR 21:**

§175.105 “Adhesives”

§175.250 “Paraffin (synthetic)”

§175.300 “Resinous and polymeric coatings”

§175.320 “Resinous and polymeric coatings for polyolefin films”

§176.170 “Components of paper and paperboard in contact with aqueous and fatty foods”

§176.180 “Components of paper and paperboard in contact with dry food”

§177.1200 “Cellophane”

§177.1390 “Laminate structures for use at temperatures of 250 °F and above”

• **Recommendation of the BfR*** (German Federal Institute for Risk Assessment) XXV, Part C, (Synthetische Hartparaffine)

* Does not meet specification with regard to solidification temperature.
Claim: Product fulfills purity requirements.

Sasol Performance Chemicals
Wax Division

Worthdamm 13–27
20457 Hamburg, Germany

wax@de.sasol.com
www.sasol.com

Global Contacts

Europe +49 40 78115 708
North America +1 770 241 1837
Latin America +55 11 4612 8199
Asia-Pacific +86 21 2218 0510
Middle East +20 3 423 85 88
Africa +27 16 960 2088

This information is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including any existing third party patent rights. In particular, no guarantee of properties in the legal sense is implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not exempted from the obligation to conduct careful inspection and testing of incoming goods. Reference to trade names used by other companies is neither a recommendation, nor is it intended to suggest that similar products could not be used. All our business transactions shall be governed exclusively by our General Sales Conditions.



SASOL