





HOT MELTS

- · Thermoplastic adhesives
- · Solid at room temperature
- · Applied in hot, molten state
- · Adhesion starts when cooling down
- · Free from solvents and decomposition products

BENEFITS OF HOT MELTS

- · More environmentally friendly than other adhesives
- · No use of solvents
- · Fast dry times allow an easy and fast processing
- · Long durability
- · Easy to store in solid state
- · Also applicable on uneven surfaces

APPLICATIONS OF HOT MELTS

- · Paper industry
- · Hygiene products
- · Shoe industry
- · Packaging industry
- · Wood processing industry
- · Graphic arts industry
- · Automotive industry
- · Road marking

OPTIMIZE HOT MELTS WITH DEUREX WAXES

- · In general, hot melts contain 10 % to 30 % of waxes
- · Lower dosage when using DEUREX waxes
- · Adjustment of technical properties, such as:
 - · Softening point
 - · Viscosity
 - · Thermal stability
 - · Increased adhesion at higher temperatures
 - · Increased compatibility with paraffin and basic polymers
 - · Increased flexibility

DEUREX WAXES FOR HOT MELTS

FISCHER-TROPSCH WAXES

DEUREX T-SERIES

- · Regulation of dry time and cure time
- · Adapt opening time of hot melts
- · High crystalline FT waxes for short open time
- · Low crystalline FT waxes for longer open time
- · Low melting FT waxes for cold-sensitive hot melts
- · High melting FT waxes with very high crystallinity and high solidification point

AMIDE WAXES

DEUREX X 20

- · Vegetable Ethylene-Bis-Stearamide wax (EBS)
- · Based on stearic acid from the sugar cane plant
- · The new product is much brighter than other amide waxes
- · Compared to other EBS waxes it does not smell
- · High drop point and close meshed hydrocarbon chains
- · Internal and external lubricant
- · Perfect suitable for temperature resistant hot melts
- · Low acid value (< 5 mg KOH/g) increases UV resistance

POLYETHYLENE WAXES

DEUREX E 09

- \cdot Very high crystallinity and hardness
- · Application in transparent and opaque hot melts
- \cdot A more attractive price than Fischer-Tropsch waxes
- · Close meshed hydrocarbon chains
- · Perfect control of rheology and boost adhesion

DEUREX E 11

- · Very good price-performance ratio
- · Very suitable for cold sensitive applications such as sealants in refrigerators
- · Long opening time
- \cdot Wide but constant hydrocarbon chain distribution, without functional groups

WATER-BASED WAX EMULSIONS

DEUREX E 1101 W and DEUREX EO 4501 W

 \cdot Tailor-made as anti-blocking and anti-caking additive

SUGAR CANE WAXES

DEUREX X 52

- · Natural wax for ecological hot melts (e.g. biomass adhesives)
- · Perfect suitable for BIO hot melts
- · High hardness
- · Easy to emulsify and grindable
- · Reduces viscosity and processing temperature of hot melts
- · Very suitable for cold sensitive applications
- · Improves ecological balance

HYBRID WAXES

DEUREX H 91

- · Connects Fischer-Tropsch wax and polyethylene wax
- · High crystallinity and solidification point
- · Regulation of drying time and curing time



SYNTHETIC WAXES	CHEMICAL DESCRIPTION	DROP POINT °C	SOLID. POINT °C	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm³
DEUREX T 17	Fischer-Tropsch wax	68 - 78	~ 70	< 20	8 - 15	0.85 - 0.90
DEUREX T 19	Fischer-Tropsch wax	83 - 91	~ 80	< 15	6 – 9	0.94 - 0.95
DEUREX T 29	Fischer-Tropsch wax	90 - 103	~ 90	< 20	4 - 7	0.94 - 0.95
DEUREX T 39	Fischer-Tropsch wax	110 -120	~ 100	< 20	< 1	0.94 - 0.95
DEUREX T 49	Fischer-Tropsch wax	112 - 120	~ 105	< 20	< 0.5	0.94 - 0.95
SYNTHETIC WAXES	CHEMICAL DESCRIPTION	DROP POINT	ACID VALUE	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm³
DEUREX E 09	Polyethylene wax	110 - 120	0	< 40	2 - 5	0.94 - 0.96
DEUREX E 11	Polyethylene wax	110 - 120	0	< 80	3 - 7	0.94 - 0.96
DEUREX H 91	Hybrid wax, Fischer-Tropsch wax and PE wax	110 - 120	0	< 20	< 5	0.94 - 0.95
NATURAL PRODUCTS	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm³
DEUREX X 20	Vegetable Ethylene-Bis-Steramide wax	140 - 145	< 5	< 20	1 - 3	0.98 - 1.00
DEUREX X 52	Sugar cane wax	78 - 82	20 - 30	< 40	1 - 3	0.90
EMULSIONS	CHEMICAL DESCRIPTION	DROP POINT °C	VISCOSITY mPas 140 °C	SOLID CONTENT	EMULSIFYER SYSTEM	PH-VALUE
DEUREX E 1101 W	Water borne emulsion based on DEUREX E 11 K	110 - 120	< 1,000	34 % - 36 %	Non ionic	6.0 - 8.0
DEUREX EO 4501 W	Water borne emulsion based on DEUREX EO 45	125 - 135	< 1,000	34 % - 36 %	Non ionic	8 - 10

All data are based on our current knowledge and inform about our products and their applications. There is no assurance for certain properties and their suitability for certain applications. The customer is responsible to care for the necessary safety measures and to ensure the appropriate handling of the product. Existing industrial property rights have to be considered. An unobjectionable quality is assured within the scope of our general terms and conditions. DEUREX_ENG_2016_10





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