



**DEUREX<sup>®</sup>**  
THE WAX COMPANY

**POLYETHYLENE WAXES**

**DEUREX<sup>®</sup>** EWAX  
POLYETHYLENE WAXES



**SUGAR CANE WAXES**

**DEUREX<sup>®</sup>** XWAX  
SUGAR CANE WAXES



**HYBRID WAXES**

**DEUREX<sup>®</sup>** HWAX  
HYBRID WAXES

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- 1989 Foundation of DEUREX GmbH
  - 1990 Installation of the first production site for polyethylene waxes (capacity 3000 t. p. a.)
  - 1997 Invention of spray micronisation of waxes
  - 2000 Startup of 1st spray tower
  - 2001 Increase of production capacity
  - 2005 Increase of production capacity for polyethylene waxes to 11,000 t. p. a.
  - 2007 Foundation of DEUREX AG for marketing of waxes
  - 2008 Invention of natural sugar cane waxes for industrial purposes
  - 2009 Increase of production capacity
  - 2010 Invention of oil and chemical adsorbent DEUREX PURE
  - 2011 Sale of micro business
  - 2012 Expansion of production and warehouse site
  - 2013 Startup of production DEUREX PURE (capacity 900 t. p. a.)
  - 2013 Startup of production sugar cane waxes (capacity 600 t. p. a.)
  - 2014 Development and introduction of hybrid waxes
  - 2015 Increase of production capacity for polyethylene waxes by further 5,000 t.p.a.



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**DEUREX<sup>®</sup> EWAX**  
 POLYETHYLENE WAXES



The polyethylene wax  
 DEUREX E 11 K

**DEUREX<sup>®</sup> XWAX**  
 SUGAR CANE WAXES



The sugar cane wax  
 DEUREX X 51 P

**DEUREX<sup>®</sup> HWAX**  
 HYBRID WAXES



The hybrid wax  
 DEUREX H 82 G

**DEUREX<sup>®</sup> AWAX**  
 AMIDE WAXES



The amide wax  
 DEUREX A 27 P

**DEUREX<sup>®</sup> PWAX**  
 POLYPROPYLENE WAXES



The polypropylene wax  
 DEUREX P 37

**DEUREX<sup>®</sup> TWAX**  
 FISCHER-TROPSCH-WAXES



The Fischer-Tropsch wax  
 DEUREX T 39 K

# DELIVERY FORMS



Broken pieces (here: DEUREX X 51)



Granules (here: DEUREX X 83 G)



Fine granules (here: DEUREX E 11 K)



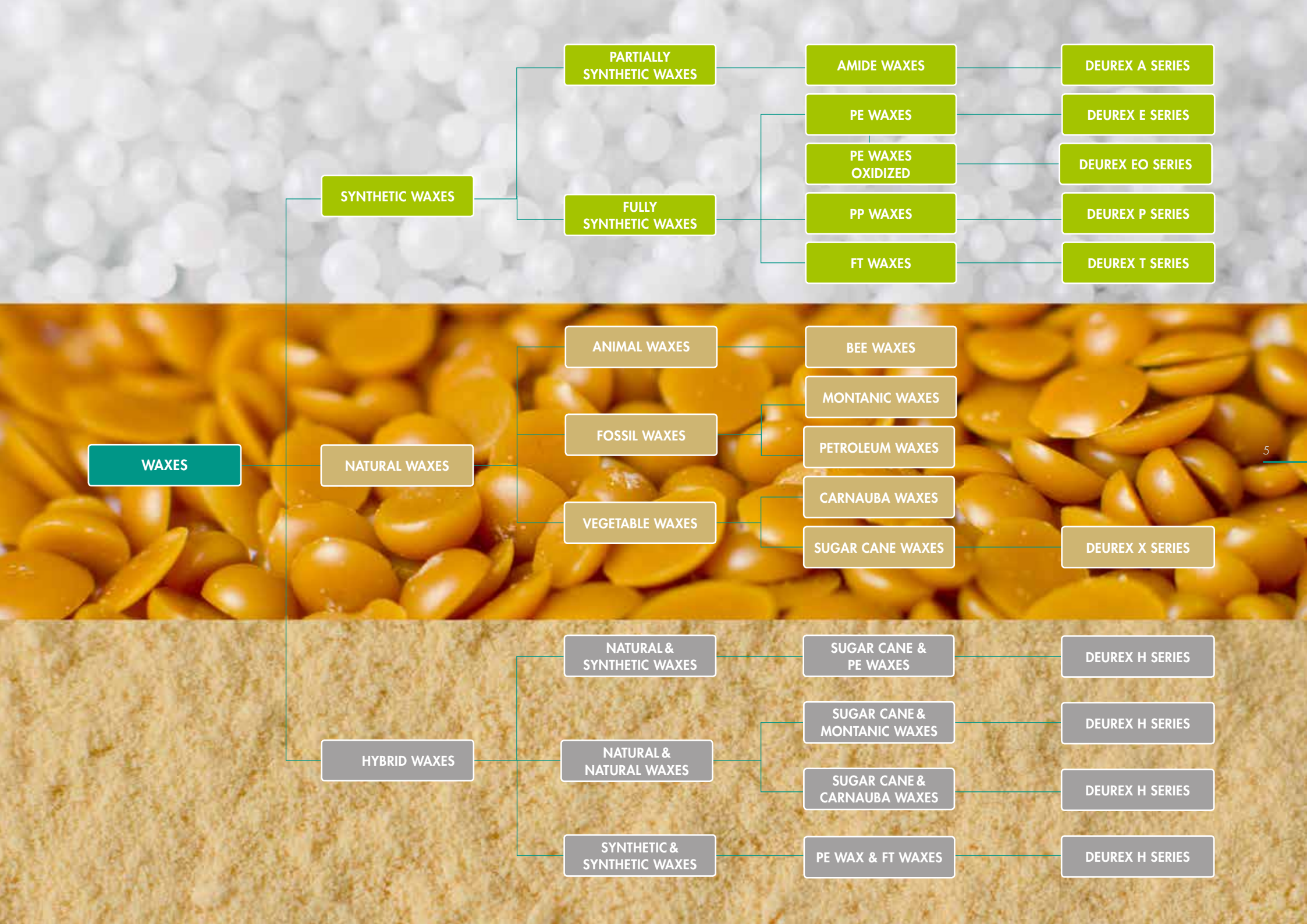
Powders (here: DEUREX H 72 P)



Water borne emulsions (here: DEURESOL X 5135 W)



Liquid in heated tank



**WAXES**





# POLYETHYLENE WAXES

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## PRODUCTION

### HIGH-PRESSURE POLYMERIZATION

Polyethylene waxes are being produced through the high-pressure polymerization of ethylene. Highly derived, very stable (temperature, pressure, UV light, chemicals) molecular structures are being produced. DEUREX waxes produced through the high-pressure polymerization are for example DEUREX E 08, DEUREX E 12 and DEUREX E 13. Final products made from these are very durable and do not yellow.

### SYNTHESIS BY THE ZIEGLER-NATTA METHOD

The polymerization named after Karl Ziegler and Giulio Natta is carried out at low pressures and temperatures with the use of organometallic catalysts. This causes low-branched, crystalline structures. The crystalline DEUREX E 09 therefore provides a very high surface hardness as well as the typical wax properties. Wider carbon chains such as DEUREX E 11 result in the best allround waxes with all the typical wax features and the best price-performance ratio.

### THERMAL DEGRADATION PROCESS OF POLYETHYLENE

The term degradation means the targeted and controlled reduction of the molecular weight of polymers under pressure and temperature. The main purpose here is to improve the rheological properties and the specific formation of required carbon chains (molecular weight). Shorter carbon chains such as in DEUREX E 10 are flexible, offer good adhesion properties, are polishable and emulsifiable. Additionally, the thermal degradation allows the production of PE waxes such as DEUREX E 06 with a melting range of below 100 °C.

### FISCHER-TROPSCH SYNTHESIS

During the Fischer-Tropsch process coal, natural gas or biomass is being converted into synthesis gas at temperatures above 1000 °C using steam and air or oxygen. In the following reaction, the gas is being converted to hydrocarbons such as alcohols, paraffin and olefins. Resulting products are the so-called hard waxes such as DEUREX T 39 with a linear molecular structure and high hardness.

### OXIDATION OF SYNTHETIC WAXES

With the aid of oxygen all synthetic waxes can be oxidized at temperatures usually just below the melting point. Oxidized waxes of the DEUREX EO series are used for the preparation of water borne emulsions and serve as internal lubricants.

### WALTER-REPPE SYNTHESIS

Walter Reppe was the name giver of the synthesis with acetates under increased pressure. The polyethylene wax is being produced according to the vinylation method. DEUREX V 2 is the only wax melting at 50 °C which provides a high hardness and stability.

### HYBRID WAXES

The hybrid waxes from DEUREX connect benefits of polyethylene waxes and various other wax types. The newly developed products combine the high drop point and the hardness of polyethylene waxes with the acid value and the flexibility of sugar cane waxes.

## HOMOPOLYMER POLYETHYLENE WAXES

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### APPLICATIONS

- Masterbatch
- PVC
- Hot melts
- Rubber
- Cable
- Raw materials for emulsions
- Raw materials for micronization

### PROPERTIES

- Improved dispersibility
- Improved lubrication and slip
- Improved rub resistance
- Matting effect
- Release agents
- Processing aids

DEUREX E SERIES





DEUREX EO 42



DEUREX V 2

## POLAR OXIDIZED POLYETHYLENE WAXES

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### APPLICATIONS

- Masterbatch
- PVC
- Hot melts
- Raw materials for emulsions

### PROPERTIES

- Lubricants
- Release agents
- Improved rub resistance
- Processing aids

DEUREX EO SERIES

## SPECIAL WAXES & EMULSIONS

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### APPLICATIONS

- Leather and stone care products
- Masterbatch
- Emulsions

### PROPERTIES

- Silky gloss
- Protect and seal surfaces
- Polymer compatibility
- Processing aids

DEUREX EV 03, DEUREX V 2, DEURESOL E 1035 W

## WAX EMULSIFIER

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### APPLICATIONS

- Textile processing
- Paper industry
- Care products

### PROPERTIES

- High performance
- Reduced dosage
- Excellent wetting properties
- Free of alkyl phenol ethoxylates

DEUREX EMU-E

WAX	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX E 06</b>	non polar polyethylene wax	93 - 103	0	< 40	10 - 25	0.94 - 0.96
<b>DEUREX E 08</b>	non polar polyethylene wax	112 - 120	0	400 - 600	1.5 - 2.5	0.93 - 0.94
<b>DEUREX E 09</b>	non polar polyethylene wax	110 - 120	0	< 40	2 - 5	0.94 - 0.96
<b>DEUREX E 10</b>	non polar polyethylene wax	100 - 110	0	< 40	10 - 25	0.94 - 0.96
<b>DEUREX E 11</b>	non polar polyethylene wax	110 - 120	0	< 80	3 - 7	0.94 - 0.96
<b>DEUREX E 12</b>	non polar polyethylene wax	106 - 114	0	100 - 200	3 - 4	0.93 - 0.94
<b>DEUREX E 13</b>	non polar polyethylene wax	115 - 123	0	600 - 700	0.5 - 1	0.93 - 0.94
<b>DEUREX E 18</b>	non polar polyethylene wax	110 - 120	0	< 400	< 3	0.93 - 0.95
<b>DEUREX E 25</b>	non polar polyethylene wax	110 - 130	0	1,000 - 4,000	3 - 7	0.92 - 0.96

	WAX	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX E 06			*	*	*	*		
DEUREX E 08		*	*	*			**	**
DEUREX E 09				**			**	**
DEUREX E 10		*	**	*	**	**	**	
DEUREX E 11		**	**	**	**	**		
DEUREX E 12		*	*	*	**	**	**	**
DEUREX E 13		*	*	*			*	*
DEUREX E 18		**	**	*			*	*
DEUREX E 25		*	*		*	*		

WAX	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX EO 40</b>	Oxidized polar polyethylene wax	97 - 105	< 19	< 120	5 - 15	0.93 - 0.96
<b>DEUREX EO 42</b>	Oxidized polar polyethylene wax	106 - 114	15 - 19	100 - 300	2 - 4	0.93 - 0.95
<b>DEUREX EO 45</b>	Oxidized HDPE wax	130 - 140	< 30	< 4,000 (160 °C)	< 0,5	0.97 - 0.99
<b>DEUREX EV 03</b>	Copolymer polyethylene vinyl acetate wax	96 - 104	0	200 - 600	6 - 10	0.93 - 0.95
<b>DEUREX V 2</b>	Polyvinylether wax	48 - 56	0	400 - 600	1 - 2	0.93 - 0.94

## EMULSIFIER

## CHEMICAL DESCRIPTION

**DEUREX EMU-E**

Emulsifier for synthetic waxes

## EMULSION

## CHEMICAL DESCRIPTION

**DEURESOL E 1035 W** Water borne emulsion

WAX	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
<b>DEUREX EO 40</b>	**	**				**	
<b>DEUREX EO 42</b>	**					**	
<b>DEUREX EO 45</b>		**	**			**	
<b>DEUREX EV 03</b>	**	*					
<b>DEUREX V 2</b>						**	

EMULSIFIER	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
<b>DEUREX EMU-E</b>						**	

EMULSION	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
<b>DEURESOL E 1035 W</b>						**	

# SUGAR CANE WAXES

## PRODUCTION

Sugar cane is a monocotyledonous plant with a typical grass-like appearance. The origin is in East Asia but today sugar cane is being cultivated in every climatically suitable region. The biggest countries are Brazil, India, China, Thailand, Pakistan and Mexico.

Sugar cane wax is being extracted from the stalks of the sugar cane plant. To produce sugar, the sugary sap is being extracted from the plant. A by-product is the so-called bagasse. This filtration residue mainly consists of cellulose, hemicelluloses and lignin. After having cleaned the bagasse from plant residues and chlorophyll, it can be used for the production of sugar cane wax.

Sugar cane waxes are probably the most sustainable waxes. They contain 100 % sugar cane and are therefore pure natural products. Since the raw material is the filter residue of the sugar cane production, no further natural resources are being used. The added value of sugar cane plants is being increased significantly.



## RAW SUGAR CANE WAXES

### APPLICATIONS

- PVC
- Hot melts
- Rubber

### PROPERTIES

- Internal lubricants
- Production of water based emulsions without pressure
- Water repellency
- Matting effects
- Improved slip
- Processing aids

DEUREX X 50



## SUGAR CANE WAXES

### APPLICATIONS

- Masterbatch
- PVC
- Hot melts
- Cable
- Raw materials for emulsions
- Raw materials for Micronization

### PROPERTIES

- Production of water based emulsions without pressure
- Internal lubricant
- Polishable
- Gloss keeping
- Water repellency
- Improved rub and scratch resistance
- UV resistance
- Matting agent

DEUREX X 51

## SUGAR CANE WAX EMULSIONS

### APPLICATIONS

- Production of ecological products
- Bio plastics and hot melts
- Water borne paints and coatings
- Water borne printing inks
- Leather care products
- Textile processing
- Care products

### PROPERTIES

- Rub resistance
- Anti-blocking for water borne printing inks
- Improved water repellency
- Optimized gloss and smoothness
- Optimized slip
- Good matting
- Pleasant haptic

DEURESOL X 5135 W

## NATURAL WAX EMULSIFIER

### APPLICATIONS

- Care products
- Textile processing
- Paper industry
- Printing inks

### PROPERTIES

- Production of natural emulsions
- Production of emulsions without pressure
- Excellent wetting properties

DEUREX EMU-X



DEUREX X 51 G

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WAX	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX X 50</b>	Raw sugar cane wax	68 - 80	20 - 50	< 40	9 - 13	< 0.90
<b>DEUREX X 51</b>	Raw sugar cane wax	68 - 80	20 - 50	< 40	2 - 4	< 0.90

**EMULSIFIER**

**CHEMICAL DESCRIPTION**

**DEUREX EMU-X**

Emulsifier for natural waxes

**EMULSION**

**CHEMICAL DESCRIPTION**

**DEURESOL X 5135 W**

Water borne emulsion



DEUREX X 51 P

DEURESOL X 5135 W

	WAX	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX X 50			*	*	**			
DEUREX X 51		**	**	**		**	**	**
	EMULSIFIER	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX EMU-X							**	
	EMULSION	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEURESOL X 5135 W							**	



# HYBRID WAXES

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## HYBRID WAXES CONNECT

Hybrid materials and products make working processes more efficient and allow the development of totally new products. Hybrid engines combine an electric engine and a combustion engine. The electric engine reduces consumption of fuel; the combustion engine keeps you mobile when the battery is empty. Glass-fiber reinforced plastics are hybrid materials as well. This composite material benefits from the stability of the fibers in combination with the flexibility of the plastics. Each component of a hybrid material also works on its own, but the combination is a new product with benefits from both materials. That is why we invented DEUREX hybrid waxes.



## TYPES OF HYBRID WAXES

### NATURAL HYBRID WAXES

The products of the DEUREX H 70 Series connect properties of various natural waxes. Our hybrid waxes combine the benefits of sugar cane waxes and montanic waxes as well as the benefits of sugar cane waxes and carnauba waxes.

### NATURAL-SYNTHETIC HYBRID WAXES

The products of the DEUREX H 80 Series connect properties of natural waxes and synthetic waxes. Our hybrid waxes combine high drop points and hardness of polyethylene waxes with an acid value and the flexibility of sugar cane waxes.

### SYNTHETIC HYBRID WAXES

The products of the DEUREX H 90 Series connect properties of various synthetic waxes. Our hybrid waxes combine the benefits of polyethylene waxes and Fischer-Tropsch waxes as well as the benefits of polyolefin waxes and amide waxes.

## NATURAL HYBRID WAXES

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### APPLICATIONS

- Masterbatch
- PVC
- Rubber
- Cable
- Raw materials for emulsions
- Raw materials for Micronization

### PROPERTIES

- Natural products, perfect for ecological formulations
- Internal lubricants
- Can reduce amounts of plasticizers
- High gloss at low dosage
- Water repellency
- Improved rub-, scratch- and UV resistance
- Emulsifiable without pressure

### DEUREX H 70 SERIES



DEUREX H 84 G



DEUREX H 91 K

## NATURAL-SYNTHETIC HYBRID WAXES

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### APPLICATIONS

- PVC
- Hot melts
- Rubber
- Cable
- Raw materials for emulsions
- Raw materials for micronization

### PROPERTIES

- Internal and external lubricants
- Silky gloss after polishing
- Water repellency
- Adjustment of viscosity
- Improved UV resistance
- Improved scratch resistance
- Improved slip

### DEUREX H 80 SERIES

## SYNTHETIC HYBRID WAXES

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### APPLICATIONS

- PVC
- Hot melts
- Raw materials for emulsions
- Raw materials for micronization

### PROPERTIES

- Adjustment of viscosity in hot melts
- Substitutes for pure Fischer-Tropsch waxes
- Processing aids

### DEUREX H 90 SERIES

## TAILOR MADE HYBRID WAXES

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Hybrid waxes combine properties of various wax types to a new product. If you would like to connect benefits of different waxes, please just contact us and we will produce a tailor-made hybrid wax according to your requirements.

### DEUREX H SERIES

WAX	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX H 71</b>	Hybrid wax, sugar cane wax and montanic wax, partly saponified	85 - 95	15 - 25	< 100	1 - 2	0.92 - 0.95
<b>DEUREX H 72</b>	Hybrid wax, sugar cane wax and montanic wax	78 - 88	15 - 25	< 10	1 - 2	0.92 - 0.95
<b>DEUREX H 72 EMU</b>	Hybrid wax, sugar cane wax and montanic wax, incl. emulsifier	75 - 83	15 - 25	< 10	< 6	0.92 - 0.95
<b>DEUREX H 73</b>	Hybrid wax, sugar cane wax and carnauba wax	80 - 86	15 - 25	< 20	< 1	0.92 - 0.95
<b>DEUREX H 81</b>	Hybrid wax, sugar cane wax and polyethylene wax	80 - 100	18 - 25	< 30	4 - 8	0.90 - 0.93
<b>DEUREX H 82</b>	Hybrid wax, sugar cane wax and polyethylene wax	90 - 110	10 - 20	< 30	2 - 4	0.90 - 0.93
<b>DEUREX H 83</b>	Hybrid wax, sugar cane wax and polyethylene wax	90 - 110	5 - 10	< 20	5 - 10	0.90 - 0.93
<b>DEUREX H 84</b>	Hybrid wax, sugar cane wax and polyethylene wax	120 - 130	8 - 13	< 20	4 - 8	0.90 - 0.93
<b>DEUREX H 91</b>	Hybrid wax, polyethylene wax and Fischer-Tropsch wax	110 - 120	0	< 20	< 5	0.94 - 0.95
<b>DEUREX H 92</b>	Hybrid wax, polyolefin wax and amide wax	130 - 140	< 5	< 40	< 5	0.97 - 0.99



WAX

MASTERBATCH

PVC

HOT MELTS

RUBBER

CABLE

R. f. EMULSIONS

R. f. MICRONIZATION

DEUREX H 71		**				**	
DEUREX H 72	**	**		**	**	**	
DEUREX H 72 EMU						*	
DEUREX H 73	**	*				**	**
DEUREX H 81		*				**	**
DEUREX H 82		*	**				**
DEUREX H 83		**		**	**	**	*
DEUREX H 84	*	*		*	**		*
DEUREX H 91	*	**	**			**	**
DEUREX H 92		*	*				**





DEUREX A 27 P



DEUREX P 36

## AMIDE WAXES

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### APPLICATIONS

- Masterbatch
- PVC
- Hot melts
- Raw materials for micronization

### PROPERTIES

- Release agents
- Lubricants
- Good printability
- Defoamer for paper production

DEUREX A SERIES

## POLYPROPYLENE WAXES

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### APPLICATIONS

- Masterbatch
- PVC
- Raw materials for micronization

### PROPERTIES

- Good dispersing properties
- Lubricants
- Matting agents

DEUREX P SERIES

## FISCHER-TROPSCH WAXES

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### APPLICATIONS

- PVC
- Hot melts
- Rubber
- Raw materials for emulsions
- Raw materials for micronization

### PROPERTIES

- Lubricants
- Release agents
- Processing aids

DEUREX T SERIES

AMIDE WAXES	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX A 20</b>	Ethylene-Bis-Stearamide wax	140 - 145	< 10	< 20 (160 °C)	1 - 3	0.98 - 1.00
<b>DEUREX A 26</b>	Erucamide wax	81 - 89	< 1	7 - 12	2 - 5	0.87 - 0.88
<b>DEUREX A 27</b>	Oleamide wax	70 - 79	< 1	6 - 11	2 - 5	0.91 - 0.92
<b>DEUREX A 28</b>	Stearamide wax	101 - 111	< 5	7 - 12	2 - 8	0.90 - 0.91

POLYPROPYLENE WAXES	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX P 36</b>	Non polar polypropylene wax	150 - 170	0	130 - 230 (180 °C)	< 1	0.87 - 0.89
<b>DEUREX P 37</b>	Non polar polypropylene wax	158 - 168	0	900 - 1,500 (180 °C)	< 1	0.87 - 0.89
<b>DEUREX P 38</b>	Polypropylene wax	145 - 155	< 5	< 40 (180 °C)	< 3	0.92 - 0.98

FISCHER-TROPSCH WAX	CHEMICAL DESCRIPTION	DROP POINT °C	ACID VALUE mg KOH/g	VISCOSITY mPas 140 °C	PENETRATION dmm	DENSITY g/cm <sup>3</sup>
<b>DEUREX T 39</b>	Fischer-Tropsch wax	110 - 120	0	< 20	< 2	0.94 - 0.95

AMIDE WAXES	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX A 20	**	**	**				**
DEUREX A 26		*		*			*
DEUREX A 27		**		*			*
DEUREX A 28		**		*			

POLYPROPYLENE WAXES	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX P 36	**	**	*				**
DEUREX P 37	**		*				*
DEUREX P 38							**

FISCHER-TROPSCH WAX	MASTERBATCH	PVC	HOT MELTS	RUBBER	CABLE	R. f. EMULSIONS	R. f. MICRONIZATION
DEUREX T 39	*	**	**	**		**	**

\* suitable

\*\* perfectly suitable



Polyethylene waxes with average to high viscosity  
DEUREX E 08, E 12, E 13



Special waxes  
DEUREX EV 03, V 2



Ziegler waxes as fine granules  
DEUREX E 09, E 11



Amide waxes  
DEUREX A 20, A 26, A 27, A 28



Thermally degraded polyethylene waxes  
DEUREX E 06, E 10, E 18



Polypropylene waxes  
DEUREX P 36, P 37, P 38



Polyethylene waxes with extremely high viscosity  
DEUREX E 25



Fischer-Tropsch waxes  
DEUREX T 39



Oxidized polyethylene waxes  
DEUREX EO 40, EO 42, EO 45



Water borne emulsions  
DEURESOL E 1035 W, X 5135 W



Raw sugar cane waxes  
DEUREX X 50



Synthetic hybrid waxes  
DEUREX H 91, H 92



Sugar cane waxes  
DEUREX X 51



Wax emulsifier  
DEUREX EMU-E, EMU-X, H 72 EMU



Natural hybrid waxes  
DEUREX H 71, H 72, H 73, H 72 EMU



DEUREX BIT  
The natural bitumen stabilizer  
made of sugar cane wax

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Natural-synthetic hybrid waxes  
DEUREX H 81, H 82, H 83, H 84



DEUREX PURE  
The oil and chemical adsorbent.

**SAFETY DATA:** Further information on all mentioned products can be found in the Material Safety Data Sheets. All current toxicological and ecological values and properties are listed in the MSDS. The MSDS provide information on hazard class designations, safety measures, exact handling and storing as well as information on disposal regulations.

**PLEASE NOTE:** 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.



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