DEUREX®
THE WAX COMPANY

DEUREX® EO 45 P

TECHNICAL INFORMATION

Chemical description: Oxidized HDPE wax

Production process: Wet Oxidation

Applications:

Production of water based emulsions and dispersions for

- Textile industry (improved sewability and cutting of textiles, improves machine lifetime)
- Care products, polishes
- Coatings and inks (e.g. overprint varnishes)
- Leather & paper industry

Benefits:

- White powder, transparent melt
- Finer particle size compared to DEUREX® EO 45 K
- For the production of very fine and transparent emulsions
- Easily to emulsify due to high acid value

Properties:

- Improves the surface properties including scratch resistance by lowering the coefficient of friction
- High density and high drop point
- Excellent abrasion resistance
- High blocking resistance and UV stability
- Improves processing time and adhesion to substrate
- Improves slip

Technical data:

Color: White
Delivery form: **DEUREX EO 45 P** = Powder

	Typical value	Method
Drop point:	138 °C	LV 12 (DGF M-III 3)
Acid value*:	25 mgKOH/g	DIN EN ISO 2114
Penetration:	0.5 mm*10^{-1}	LV 4 (DIN 51579)
Viscosity (150 °C):	5.000 mPas	LV 2 (DIN EN ISO3104)
Density (23 °C):	0.98 g/cm³	LV 3 (DIN EN ISO 1183)

* Part of certificate of analysis

Approvals:

EU: Regulation (EU) 10/2011
USA: FDA CFR §§ 175.105, 176.180, 176.200, 176.210, 177.2800
(Approvals with regard to limitations and migration values in the final application)

Alternative products:

DEUREX® EO 46 P – Oxidized HDPE wax, acid value 30
DEUREX® EO 47 P – Oxidized HDPE wax, acid value 35

Alternative delivery forms:

DEUREX® EO 45 K – Oxidized HDPE wax, acid value 25
DEUREX® EO 4520 M – Micronized oxidized HDPE wax, 98% < 20 µm
DEUREX® EO 4501 W – HDPE emulsion, 98% < 1 µm

This data sheet is based on our current knowledge and experience. In view of the individual factors that may affect processing and application, this data does not relieve users from the responsibility of carrying out their own tests and experiments, neither do they imply any legally binding assurance of certain properties. Existing industrial/commercial protective laws have to be considered by the recipient. Updated versions of the data sheet replace all formerly existing versions.
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