

DEUREX® EO 46 K

TECHNICAL INFORMATION

- Chemical description:** Oxidized HDPE wax
- Production process:** Dry 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:**
- For the production of very fine and transparent emulsions
 - Easier to emulsify than DEUREX® EO 45 K due to higher 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: Off-white
Delivery form: **DEUREX EO 46 K** = Fine granules

	Typical value		Method
Drop point:	137 °C	139 °C	LV 12 (DGF M-III 3)
Acid value*:	28 mgKOH/g	32 mgKOH/g	DIN EN ISO 2114
Penetration:	0.5 mm*10 ⁻¹		LV 4 (DIN 51579)
Viscosity (150 °C):	4.000 mPas		LV 2 (DIN EN ISO3104)
Density (23 °C):	0.97 g/cm ³	0.99 g/cm ³	LV 3 (DIN EN ISO 1183)

* Part of certificate of analysis

Approvals: DEUREX® EO 46 K is approved for the production of commodities intended to come into contact with food.
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 45 K** – Oxidized HDPE wax, acid value 25

Alternative delivery form: **DEUREX® EO 46 P** – Oxidized HDPE wax, acid value 30
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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