

DEUREX® EO 47 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 46 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 47 K** = Fine granules

	Typical value		Method
Drop point:	137 °C	139 °C	LV 12 (DGF M-III 3)
Acid value*:	34 mgKOH/g	36 mgKOH/g	DIN EN ISO 2114
Penetration:	0.5 mm*10 ⁻¹		LV 4 (DIN 51579)
Viscosity (150 °C):	3.000 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 47K 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
DEUREX® EO 46 K – Oxidized HDPE wax, acid value 30

Alternative delivery form: **DEUREX® EO 47 P** – Oxidized HDPE wax, acid value 35
DEUREX® EO 4520 M – Micronized oxidized HDPE wax, 98% < 20 µm
DEUREX® EO 4501 W – HDPE emulsion, 98% < 1 µm