

## DEUREX® EO 45 P

### TECHNICAL INFORMATION

- Chemical description:** Oxidized HDPE wax
- Benefits:** DEUREX® EO 45 probably the hardest wax in the world
- 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*:	132 °C	135 °C	LV 12 (DGF M-III 3)
Acid value*:	24 mgKOH/g	26 mgKOH/g	DIN EN ISO 2114
Penetration:		0.5 mm*10 <sup>-1</sup>	LV 4 (DIN 51579)
Viscosity (140 °C):		2.500 mPas	LV 2 (DIN EN ISO3104)
Density (23 °C):	0.97 g/cm <sup>3</sup>	0.99 g/cm <sup>3</sup>	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