

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 ⁻¹ | LV 4 (DIN 51579) |
| Viscosity (140 °C): | | 2.500 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: 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