# DEUREX® EO 45 K

TECHNICAL INFORMATION

**Chemical description:** Oxidized HDPE wax

**Benefits:**
- DEUREX® EO 45 probably the hardest wax in the world

**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

Hot melt
- Increases heat resistance

**Benefits:**
- 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, improves slip
- High blocking resistance and UV stability
- Improves processing time and adhesion to substrate

**Technical data:**

Color: Off-white
Delivery form: **DEUREX EO 45 K** = Fine granules

| | Typical value | | Method |
|---|---|---|---|
| Drop point: | 137 °C | 139 °C | ASTM D 3954 |
| Acid value*: | 24 mgKOH/g | 26 mgKOH/g | ASTM D 1386 |
| Penetration: | | 0.5 mm*$10^{-1}$ | ASTM D 1321 |
| Viscosity (150 °C): | | 5.000 mPas | ISO 3219 |
| Density (23 °C): | 0.97 g/cm³ | 0.99 g/cm³ | ISO 1183 |

* Part of certificate of analysis

**Approvals:** Food contact approvals

**Alternative products:** See **https://www.deurex.com/productsearch/DEUREX-EO-45-K/**



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