

## DEUREX® EO 43 K

### TECHNICAL INFORMATION

- Chemical description:** Oxidized HDPE wax
- Production process:** Dry Oxidation
- Applications:** PVC and other plastics  
- Can be used in all U-PVC and P-PVC applications but also in C-PVC
- Properties:** Partially internal and external wax, highly effective wax  
- Accelerates fusion  
- Increases torque and pressure  
- Synergistic effect in combination with non-polar PE waxes by reduction of melt viscosity  
- Very effective for the use in processing PVC regrind
- Hot melt  
- Adhesion, heat resistance, increase production output
- Typical dosages:** Depending on the rheological requirements:  
- Up to 0.2 phr for PVC, up to 0.5 phr for C-PVC

**Technical data:**

Colour: Off-white  
Delivery form: **DEUREX EO 43 K** = Fine granules

	Minimum	Maximum	Method
Drop point:	137 °C	139 °C	LV 12 (DGF M-III 3)
Acid value*:	6 mgKOH/g	8 mgKOH/g	DIN EN ISO 2114
Penetration:		0.5 mm*10 <sup>-1</sup>	LV 4 (DIN 51579)
Viscosity (150 °C):		30.000 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:** DEUREX® EO 43 K is approved for the production of commodities intended to come into contact with food.  
EU: Regulation (EU) 10/2011  
USA: FDA CFR §§ 172.260, 175.105, 175.125, 175.300, 175.320, 176.170, 176.180, 176.200, 176.210, 177.1200, 177.1210, 177.1620, 177.2600, 177.2800, 178.3570, 178.3850  
(Approvals with regard to limitations and migration values in the final application)

- Alternative products:** **DEUREX® EO 40 K** – Oxidized LDPE wax, acid value 19  
**DEUREX® EO 44 K** – Oxidized HDPE wax, acid value 16

- Alternative delivery forms:** **DEUREX® EO 43 P** – Oxidized HDPE wax, acid value 7  
**DEUREX® EO 4520 M** – Micronized oxidized HDPE wax, 98% < 20 µm  
**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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