

## **DEUREX® EO 4545 M**

**TECHNICAL INFORMATION** 

Chemical description: Micronized oxidized HDPE wax

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

**Applications:** - Lithographic paste ink

- Used in water-based-coatings and inks,

UV/EB cured coatings and inks

- Flexo and gravure inks

Dry-film lubricants and thinner film applications
 Processing aid and gloss reducer in powder coatings

**Properties**: - High temperature stability

- Outstanding abrasion resistance and toughness

- Very good blocking resistance

- Friction coefficient might be the best choice from all waxes

Excellent antisettling and antifloating properties
 Highly compatible with aqueous-based systems

Technical data: Colour: White

Consistencies: **DEUREX® EO 4545 M** = Micronized powder

	Minimum	Maximum	Method
Particle size*:		98% < 45 µm	LV 5
Typical value:		50% ~ 13 μm	(DIN ISO 13320)
Drop point*:	132 °C	135 °C	LV 12 (DGF M-III 3)
Penetration:		0.5 mm*10 <sup>-1</sup>	LV 4 (DIN 51579)
Density (23 °C):	0.97 g/cm <sup>3</sup>	0.99 g/cm <sup>3</sup>	LV 3 (DIN EN ISO 1183)

<sup>\*</sup> Part of certificate of analysis

EU: Regulation (EU) 10/2011

USA: FDA 21 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: BIOMER® 130 – Biodegradable high melting wax

Alternative delivery forms: DEUREX® EO 45 P – Powder

**DEUREX® EO 4515 M** – Micronized powder,  $98\% < 15 \mu m$  **DEUREX® EO 4520 M** – Micronized powder,  $98\% < 20 \mu m$  **DEUREX® EO 4530 M** – Micronized powder,  $98\% < 30 \mu m$  **DEUREX® EO 4560 M** – Micronized powder,  $98\% < 60 \mu m$ 

**DEUREX® EO 4501 W** – Water based emulsion of a oxidized HDPE **DEUREX® EO 4508 W** – Water based dispersion of a oxidized HDPE

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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