

## DEUREX® TO 81 G

### TECHNICAL INFORMATION

- Chemical description:** Oxidized Fischer-Tropsch wax
- Benefits:**
- Extremely hard and scratch-resistant wax with a hydrophilic character
- Applications:**
- Production of water-based emulsions and dispersions for:
- Textile industry (improved sewability and cutting of textiles)
  - Care products (hydrophobing, gloss, hardness)
  - Water-based coatings (slip, abrasion and scratch resistance)
  - Water-based printing inks (slip, abrasion and scratch resistance)
  - Paper industry (hydrophobing, tensile strength, stability)
  - Polishes (surface improvement)
  - Leather (surface improvement, hydrophobing)
  - Anti-corrosive agent
- PVC processing
- Increase viscosity
  - Faster gelling
  - Improved compatibility
  - Perfect external lubricant and internal lubricant in one
  - No metal adhesion
  - Mould release agent
- Hot melts
- Shortening the open time, increased adhesion, no stringing
  - Reduced amount of bonding agents
- Masterbatch
- Dispersing agent for hydrophilic pigments

**Technical data:**

Colour: Off-white  
Delivery form: **DEUREX TO 81 G** = Granules

	Minimum	Maximum	Method
Congealing point*:	95 °C	102 °C	LV 12 (DGF M-III 3)
Acid value*:	5 mgKOH/g	10 mgKOH/g	DIN EN ISO 2114
Saponification value:	10 mgKOH/g	20 mgKOH/g	DIN EN ISO 2114
Viscosity (140 °C):		20 mPas	LV 2 (DIN EN ISO3104)
Penetration:		1.0 mm*10 <sup>-1</sup>	LV 4 (DIN 51579)
Density (23 °C):	0.94 g/cm³	0.95 g/cm³	LV 3 (DIN EN ISO 1183)

\* Part of certificate of analysis

**Alternative delivery forms:** **DEUREX® TO 8120 M** – Micro-sized powder, 98% < 20 µm

**Alternative product:**

- DEUREX® TO 80** – Oxidized Fischer-Tropsch-wax with acid value 2 – 4
- DEUREX® TO 82** – Oxidized Fischer-Tropsch-wax with acid value 15 – 20
- DEUREX® TO 83** – Oxidized Fischer-Tropsch-wax with acid value 25 – 30
- DEUREX® TO 84** – Oxidized Fischer-Tropsch-wax with acid value 30 - 40

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.  
® - registered trademark by DEUREX