**DEUREX® TO 8120 M**

**TECHNICAL INFORMATION**

**Chemical description:** Micro-sized oxidized Fischer-Tropsch wax

**Production process:** Air classification process

**Applications:**
- Water-based paints and coatings
- Water-based printing inks

**Properties:**
- Very hard and hydrophilic
- Improved slip and antiblocking
- Hydrophilic character, easy to disperse with low amount of emulsifiers in water-based system
- Excellent wear, abrasion and scratch resistance

**Benefits:**
- Reduction of emulsifier dose thanks to hydrophilic character
- Guaranteed maximum particle size and constant and narrow particle size distribution
- Easily dispersible without lump or coagulate formation

**Technical data:**

<table>
<thead>
<tr>
<th>Property</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Particle size*</td>
<td>98 % &lt; 20 μm</td>
<td>50 % ~ 8 μm</td>
<td>LV 5 (DIN ISO 13320)</td>
</tr>
<tr>
<td>Typical value</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drop point*</td>
<td>105 °C</td>
<td>115 °C</td>
<td>LV 12 (DGF M-III 3)</td>
</tr>
<tr>
<td>Acid value</td>
<td>5 mgKOH/g</td>
<td>10 mgKOH/g</td>
<td>DIN EN ISO 2114</td>
</tr>
<tr>
<td>Penetration</td>
<td>1 mm*10⁻¹</td>
<td></td>
<td>LV 4 (DIN 51579)</td>
</tr>
<tr>
<td>Density (23 °C)</td>
<td>0.94 g/cm³</td>
<td>0.95 g/cm³</td>
<td>LV 3 (DIN ISO 1183)</td>
</tr>
</tbody>
</table>

*Part of certificate of analysis*

**Alternative delivery forms:**
- **DEUREX® TO 81 G** – Granules
- **DEUREX® TO 8120 M** – Micro-sized hydrophobic FT-wax, 98% < 20 μm
- **DEUREX® T 3908 W** – Water-based hydrophobic FT-wax dispersion

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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