**AEROSIL® OX 50**

Hydrophilic fumed silica

### Characteristic physico-chemical data

<table>
<thead>
<tr>
<th>Properties and test methods</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific surface area (BET)</td>
<td>$m^2/g$</td>
<td>$50 \pm 15$</td>
</tr>
<tr>
<td>Tamped density* acc. to DIN EN ISO 787/11, Aug. 1983</td>
<td>g/l</td>
<td>approx. 130</td>
</tr>
<tr>
<td>Moisture* 2 hours at 105°C</td>
<td>wt.%</td>
<td>$\leq 1.5$</td>
</tr>
<tr>
<td>Ignition loss 2 hours at 1000°C based on material dried for 2 hours at 105°C</td>
<td>wt.%</td>
<td>$\leq 1.0$</td>
</tr>
<tr>
<td>pH in 4% Dispersion</td>
<td></td>
<td>3.8 - 4.8</td>
</tr>
<tr>
<td>Sieve residue (by Mocker, 45μm) acc. to DIN EN ISO 787/18, Apr. 1984</td>
<td>wt.%</td>
<td>$\leq 0.200$</td>
</tr>
<tr>
<td>SiO₂ - content based on ignited material</td>
<td>wt.%</td>
<td>$\geq 99.8$</td>
</tr>
</tbody>
</table>

* ex plant
The data represents typical values (no product specification).

### Registration

<table>
<thead>
<tr>
<th>AEROSIL® OX 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.</td>
</tr>
<tr>
<td>REACH (Europe)</td>
</tr>
<tr>
<td>TSCA (USA)</td>
</tr>
<tr>
<td>DSL (Canada)</td>
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<tr>
<td>AICS (Australia)</td>
</tr>
<tr>
<td>ENCS (Japan)</td>
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<tr>
<td>KECI (Korea)</td>
</tr>
<tr>
<td>IECS (China)</td>
</tr>
</tbody>
</table>

AEROSIL® OX 50 is the fumed oxide of our portfolio with the smallest specific surface area. High chemical purity, distinct low thickening and agglomeration properties are typical characteristics.

### Applications and properties

#### Applications
- PET-films
- Dental composites
- Raw material for production of ultra pure silica glass according to the sol-gel-process.

#### Properties
- Antiblocking for plastics
- Improves dielectrical properties
- Enables high filler loading
- Broad particle size distribution
- High tamped density
- Low tendencies to form agglomerates
- Low thickening properties
- High purity

### Safety and handling

Information concerning the safety of this product is listed in the corresponding Material Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com or can be downloaded from our homepage www.aerosil.com. We recommend to read carefully the material safety data sheet prior to the use of our product.

### Packaging and storage

AEROSIL® OX 50 is supplied in multiple layer 15 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROSIL® OX 50 should be used within 2 years after production.
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