AEROSIL® 380 Hydrophilic Fumed Silica

*AEROSIL® 380 is a hydrophilic fumed silica with a specific surface area of 380 m²/g.

Applications and Properties

Applications

- Paints and coatings
- HTV- silicone rubber
- Cable compounds and unsaturated polyester resins
- Adhesives and sealants
- Printing inks
- Food

Properties

- Rheology and thixotropy control of liquids, binders, polymers, etc.
- AEROSIL® grade with the highest surface area resulting in best thickening and thixotropy.
- Reinforcement of HTV-silicone rubber.
- Excellent transparency in unsaturated polyester resins.
- Flow aid

Physico-chemical Data

<table>
<thead>
<tr>
<th>Properties</th>
<th>Unit</th>
<th>Typical Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific surface area (BET)</td>
<td>m²/g</td>
<td>380 ± 30</td>
</tr>
<tr>
<td>Average primary particle size</td>
<td>nm</td>
<td>7</td>
</tr>
<tr>
<td>Tapped density (approx. value)* acc. to DIN EN ISO 787/11, Aug. 1983</td>
<td>g/l</td>
<td>approx. 50</td>
</tr>
<tr>
<td>Moisture* 2 hours at 105°C</td>
<td>wt.%</td>
<td>≤ 2.0</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>≤ 2.5</td>
</tr>
<tr>
<td>pH in 4% dispersion</td>
<td></td>
<td>3.7 - 4.7</td>
</tr>
<tr>
<td>SiO₂ - content based on ignited material</td>
<td>wt.%</td>
<td>≥ 99.8</td>
</tr>
</tbody>
</table>

* ex plant
The data represents typical values and not production parameters.
Safety and Handling

With every sample or initial shipment of our products we will send a Material Safety Data Sheet. Of course, you can also request an MSDS or any other information regarding product safety at any time, or download it as a registered user at www.aerosil.com.

Packaging and Storage

AEROSIL® 380 is supplied in multiple layer 10 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROSIL® 380 should be used within 2 years after production.

Registration

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>EINECS</th>
<th>TSCA (USA), AICS (Australia), DSL (Canada)</th>
<th>ENCS (Japan)</th>
<th>ECL (Korea)</th>
<th>IECS (China)</th>
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<td>KE-30953</td>
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<td>KE-31032</td>
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