AEROSIL® R 972
Hydrophobic Fumed Silica

AEROSIL® R 972 is a hydrophobic fumed silica after treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 130 m²/g

Applications and Properties

Applications
• Silicone rubber and silicone sealants
• Paints and coatings
• Printing inks and toner
• Adhesives
• Cable compounds and gels
• Plant protection

Properties
• Hydrophobic component for thickening and reinforcement of RTV-1 K silicone sealants.
• Improves shelf-life of silicone sealants.
• Water resistant, hydrophobising of liquid systems.
• Rheology control of (complex) liquid systems.
• For use in coatings as anti-settling agent, for pigment stabilization and improvement of corrosion protection.
• Improves hydrophobicity and rheology of offset printing inks.
• Improvement and maintenance of free flow and anti-caking characteristics of powders.

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>110 ± 20</td>
</tr>
<tr>
<td>Carbon content</td>
<td>wt.%</td>
<td>0.6 – 1.2</td>
</tr>
<tr>
<td>Average primary particle size</td>
<td>nm</td>
<td>16</td>
</tr>
<tr>
<td>Tapped density* (approx. value) acc.</td>
<td>g/l</td>
<td>approx. 50</td>
</tr>
<tr>
<td>to DIN EN ISO 787/11, Aug. 1983</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moisture *</td>
<td>wt.%</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>2 hours at 105 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition loss, 2 hours at 1000 °C,</td>
<td>wt.%</td>
<td>≤ 2.0</td>
</tr>
<tr>
<td>based on material dried for 2 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>at 105 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH in 4% dispersion</td>
<td></td>
<td>3.6 – 4.4</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 ask at any time for a MSDS or any other information regarding product safety.

Registration

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<tr>
<th>CAS-No.</th>
<th>EINECS</th>
<th>TSCA (USA)</th>
<th>AICS (Australia)</th>
<th>CEPA (Canada)</th>
<th>PICCS (Philippines)</th>
<th>IECs (China)</th>
<th>MITI (Japan)</th>
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</thead>
<tbody>
<tr>
<td>AEROSIL® R 972</td>
<td>68 611-44-9</td>
<td>271-893-4</td>
<td>Registered</td>
<td>1-548 / 7-476</td>
<td>KE-10116</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Packing and Storage

AEROSIL® R 972 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® R 972 should be used within 2 years after production.

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