## TECHNICAL DATA SHEET

**micromod Partikeltechnologie GmbH**

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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code:</td>
<td>40-00-303</td>
</tr>
<tr>
<td>Product name:</td>
<td>sicastar®-redF</td>
</tr>
<tr>
<td>Surface:</td>
<td>plain</td>
</tr>
<tr>
<td>Size:</td>
<td>3 µm</td>
</tr>
<tr>
<td>Solid content:</td>
<td>50 mg/ml</td>
</tr>
<tr>
<td>Composition:</td>
<td>red fluorescent silica particles</td>
</tr>
<tr>
<td>Standard deviation:</td>
<td>&lt; 0.85 µm</td>
</tr>
<tr>
<td>Shape:</td>
<td>spherical with irregularities</td>
</tr>
<tr>
<td>Density:</td>
<td>1.8 g/ccm</td>
</tr>
<tr>
<td>Porosity:</td>
<td>porous</td>
</tr>
<tr>
<td>Stable in:</td>
<td>aqueous buffers, organic solvents</td>
</tr>
<tr>
<td>Not stable in:</td>
<td>hydrofluoric acid, strong basic media, e.g. 6 M NaOH</td>
</tr>
<tr>
<td>Product form:</td>
<td>Suspension in water</td>
</tr>
<tr>
<td>Particles per ml:</td>
<td>2.0 E9</td>
</tr>
<tr>
<td>Particles per mg:</td>
<td>3.9 E7</td>
</tr>
<tr>
<td>Optical properties:</td>
<td>red fluorescent</td>
</tr>
<tr>
<td>Colour:</td>
<td>pink</td>
</tr>
<tr>
<td>Excitation:</td>
<td>569 nm</td>
</tr>
<tr>
<td>Emission:</td>
<td>585 nm</td>
</tr>
<tr>
<td>Additional remarks:</td>
<td>Storage at room temperature.</td>
</tr>
</tbody>
</table>