## TECHNICAL DATA SHEET

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<table>
<thead>
<tr>
<th><strong>Product code:</strong></th>
<th>40-00-501</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name:</strong></td>
<td>sicastar®-redF</td>
</tr>
<tr>
<td><strong>Surface:</strong></td>
<td>plain</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>50 nm</td>
</tr>
<tr>
<td><strong>Solid content:</strong></td>
<td>25 mg/ml</td>
</tr>
<tr>
<td><strong>Composition:</strong></td>
<td>red fluorescent silica particles</td>
</tr>
<tr>
<td><strong>Polydispersity index:</strong></td>
<td>&lt; 0.2</td>
</tr>
<tr>
<td><strong>Shape:</strong></td>
<td>spherical</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>2.0 g/ccm</td>
</tr>
<tr>
<td><strong>Porosity:</strong></td>
<td>nonporous</td>
</tr>
<tr>
<td><strong>Stable in:</strong></td>
<td>aqueous buffers, organic solvents</td>
</tr>
<tr>
<td><strong>Not stable in:</strong></td>
<td>hydrofluoric acid, strong basic media, e.g. 6 M NaOH</td>
</tr>
<tr>
<td><strong>Product form:</strong></td>
<td>Suspension in water</td>
</tr>
<tr>
<td><strong>Particles per ml:</strong></td>
<td>1.9 E14</td>
</tr>
<tr>
<td><strong>Particles per mg:</strong></td>
<td>7.6 E12</td>
</tr>
<tr>
<td><strong>Optical properties:</strong></td>
<td>red fluorescent</td>
</tr>
<tr>
<td><strong>Colour:</strong></td>
<td>pink</td>
</tr>
<tr>
<td><strong>Excitation:</strong></td>
<td>569 nm</td>
</tr>
<tr>
<td><strong>Emission:</strong></td>
<td>585 nm</td>
</tr>
<tr>
<td><strong>Additional remarks:</strong></td>
<td>Storage at room temperature. Do not freeze!</td>
</tr>
</tbody>
</table>