AERODISP® W 925 is a dispersion based on AEROXIDE® Alu 130, Evonik’s highest surface area fumed aluminum oxide. It is stabilized at a pH value of 4. Many applications can utilize the positive surface charge of the particles in this pH range.

Applications and properties

Applications

- Injet paper coatings
  - High gloss
  - High color gamuts and printing performance
  - Rapid ink adsorption
  - Water-fastness
- Fluorescent lighting applications
  - Selective UV reflector
  - Mercury barrier
  - Anorganic binder in the fluorescent coating

The combination of these functions is conducive to durable and environmentally friendly bulbs.

- Other applications include
  - Ceramics
  - Nanocomposites

Properties

- Positively charged particles
- High surface area (approx. 135 g/m²)
- Easy to handle

Appearance

- AERODISP® W 925 is a liquid with low viscosity and a milky-white appearance

Characteristic physico-chemical data

<table>
<thead>
<tr>
<th>Properties and test methods</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td></td>
<td>3.0 - 5.0</td>
</tr>
<tr>
<td>Density 20 °C</td>
<td></td>
<td>1.20</td>
</tr>
<tr>
<td>Al₂O₃ content</td>
<td>%</td>
<td>24 - 26</td>
</tr>
<tr>
<td>Average primary particle size</td>
<td>nm</td>
<td>approx. 11.0</td>
</tr>
<tr>
<td>Mean aggregate size d-50 value</td>
<td>µm</td>
<td>approx. 0.11</td>
</tr>
<tr>
<td>Viscosity measured at a shear rate</td>
<td>mPas</td>
<td>≤ 1000</td>
</tr>
</tbody>
</table>

The data represents typical values (no product specification).

Registrations (substance or product components)

<table>
<thead>
<tr>
<th>CAS-No.*</th>
<th>1344-28-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS (Europe), TSCA (USA), DSL (Canada), AICS (Australia), ENCS (Japan), IECSC (China), KECl (Korea)</td>
<td>All components of this dispersion are registered in the mentioned inventories.</td>
</tr>
</tbody>
</table>
Safety and handling

A safety data sheet will be provided with your first delivery and with subsequent revisions. Additionally, the Product Safety Department of Evonik Resource Efficiency GmbH can be contacted via mail at sds-hu@evonik.com for specific questions. We recommend to read the safety data sheet carefully prior to use of the product.

Packaging and storage

Depending on the region, AERODISP® W 925 is available in 60 kg containers, 220 kg drums, 1000 and 1200 kg intermediate bulk containers (IBC’s). All dispersions must be protected from extreme heat and frost. The product should be used within 18 months from the date of production. Small amounts of sedimentation are normal.