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Packing and Storage

AEROSIL® fumed silica in adhesives and sealants

Industrie Information 2123

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Registration | CAS-No. | REACH (Europe) | TSCA (USA) | AICS (Australia) | DSL (Canada) | PICCS (Philippines) | ENCS (Japan) | KECI (Korea) | IECSC (China) |
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AEROSIL® 130, 150, 200, 300, 380 | 112-94-5 | 201-943-9 | registered | | | | | | |
AEROSIL® COK 84 | 112-945-5 | 216-946-8 | registered | | | | | | |
AEROSIL® 6732 | 60-611-46-8 | 271-883-4 | registered | | | | | | |
AEROSIL® 6974 | 60-611-46-8 | 271-883-4 | registered | | | | | | |
AEROSIL® R 8200 | 60-109-20-4 | 272-857-1 | registered | | | | | | |
AEROSIL® R 851 | 92-797-60-6 | 296-872-3 | registered | | | | | | |
AEROSIL® R 253 | 61-762-90-0 | | registered | | | | | | |
AEROSIL® R 194 | 60-183-01-0 | 271-591-9 | registered | | | | | | |
AEROSIL® 6711 | 130602-76-6 | 260-011-9 | registered | | | | | | |
AEROSIL® 7290 | 130602-76-6 | 260-011-9 | registered | | | | | | |
AEROSIL® R 106 | 68-583-49-3 | 271-854-2 | registered | | | | | | |
AEROSIL® R 711 | 100402-78-6 | | registered | | | | | | |
AEROSIL® R 7200 | 100402-78-6 | | registered | | | | | | |
AEROSIL® fumed silica in adhesives and sealants

AEROSIL® fumed silica is a highly dispersed or fumed silica dioxide. Hydrosoluble fumed silica produced in an oxygen-hydrogen flame, produces an extremely fine, amorphous white powder of very high purity. The extremely small primary particles naturally result in a wide specific surface area, ranging from 50 m²/g to above 5000 m²/g. The unique properties of AEROSIL® fumed silica is invented to improve the manufacturing, quality and properties, AEROSIL® fumed silica performs in a multitude of applications in the adhesives and sealants industry. Both hydrophilic and hydrophobic types of AEROSIL® fumed silica is used as rheology control silica, as well as the AEROXIDE® Alu C are mainly used as an additive for anti-sag, rheology control and anti-settling in structural adhesives, silicone and water-based adhesives. In sealants, AEROSIL® fumed silica is used as a plastic control and reinforcing additive and AEROSIL® 7200, 25 improves the thermal stability. AEROSIL® W 7200 is a low viscosity, water-based dispersion of AEROSIL® fumed silica which improves shear adhesion and clarity of water-based pressure sensitive adhesives.

- THICKSTORY
- YIELD POINT
- VISCOSITY CONTROL
- REINFORCEMENT
- ANTI-SAG
- ANTI-SETTLING
- SPRAYABILITY
- BONDING STRENGTH
**AEROSIL® fumed silica in adhesives and sealants**

AEROSIL® fumed silica is a highly dispersed or fumed silica. Hydrolysis of chlorosilanes in an oxygen-hydrogen flame, produces an extremely small white powder of very high purity. The extremely small primary particles naturally result in a high specific surface area, ranging from 50 m²/g to 380 m²/g. AEROSIL® fumed silica is used as rheology control, reinforcing additive while AEROXIDE® TiO₂ P 25 improves the thermal stability. AERODISP® W 7520 is a low viscosity, water-based dispersion of AEROSIL® fumed silica, which improves shear adhesion and clarity of water-based pressure sensitive adhesives.

**AEROSIL® fumed silica in adhesives**

**System**

<table>
<thead>
<tr>
<th>AEROSIL®/Grade</th>
<th>Concentration (in %)</th>
<th>Effect</th>
<th>Dispersion Equipment</th>
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<td>System 3</td>
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**Polyurethane**

- Anti-Sag, Reinforcement
- Anti-Settling
- Shear adhesion
- Hardness (R 7200)
- Anti-Sag, Thixotropy, Anti-Settling, Reinforcement

**Polyvinylchloride**

- Reinforcement
- Transparency (R 106, R 812 S), Reinforcement, Improves hardness (R 7200)
- Anti-Sag, Thixotropy, Anti-Settling

**Acrylate, acrylic**

- Anti-Sag, Anti-Settling, Reinforcement, Stability
- Reinforcement
- Anti-Sag, Thixotropy

**Acrylate, methacrylate**

- Anti-Sag, Thixotropy
- Reinforcement
- Transparency

**Unsaturated Polyester**

- Anti-Sag, Thixotropy
- Reinforcement
- Transparency, Anti-Settling, Reinforcement

**Vinylster**

- Anti-Sag, Reinforcement
- Reinforcement, Viscosity

**Silicone**

- Anti-Sag, Reinforcement
- Reinforcement
- Anti-Sag, Thixotropy

**Polyurethane resin**

- Anti-Sag, Reinforcement

**Polyalcohol**

- Anti-Sag, Anti-Settling, Reinforcement
- Thixotropy, Anti-Settling

**Pressure sensitive water based**

- Anti-Sag, Reinforcement, Shear adhesion, Clarity

**vinylster**

- Anti-Sag, Reinforcement, Shear adhesion, Clarity

**PPC-Masked**

- Anti-Sag, Thixotropy

**Bakelit**

- Anti-Sag, Reinforcement, Shear adhesion, Clarity

**AEROSIL® fumed silica in sealants**

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**Silicone**

- Anti-Sag, Reinforcement, Shear adhesion, Clarity
- Reinforcement
- Anti-Sag, Thixotropy, Reinforcement
- Reinforcement
- Anti-Sag, Thixotropy

**Polyurethane**

- Anti-Sag, Reinforcement
- Anti-Sag, Thixotropy, Reinforcement
- Reinforcement
- Anti-Sag, Thixotropy

**Acrylate, acrylic**

- Anti-Sag, Thixotropy
- Reinforcement
- Shear adhesion, Clarity
Adhesives and sealants

**AEROSIL®** fumed silica is a highly dispersed or fumed silica dioxide. Hydrolysis of chlorosilanes in an oxygen-hydrogen flame, produces an extremely fine white powder of very high purity. The extremely small primary particles naturally result in a high specific surface area, leading to a high dispersing capacity of the silica in aqueous and organic media. The extremely small primary particles also improve the manufacturing, quality and performance of adhesives and sealants. Due to specific properties, AEROSIL® fumed silica performs in a multitude of applications in the adhesive and sealant industry. Both hydrophilic and hydrophobic types of AEROSIL® fumed silica, as well as the AEROXIDE® Alu C are mainly used as reinforcing additive while AEROXIDE® TiO2 P 25 improves the thermal stability. AERODISP® W 7520 is a low viscosity, water-based dispersion of AEROSIL® fumed silica which improves shear adhesion and clarity of water-based pressure sensitive adhesives.

### AEROSIL® fumed silica in adhesives

- **Spray**
  - AEROSIL® 200
    - AEROSIL® 972
  - AEROSIL® 200
  - AEROSIL® 972

- **Polyurethane**
  - AEROSIL® 200
  - AEROSIL® 972
  - AEROXIDE® TiO2 P 25
  - AEROSIL® 972

- **Nail/SMP/IP**
  - AEROSIL® R 972
  - AEROSIL® R 202
  - AEROXIDE® Alu C

- **Acrylate/ Methacrylate**
  - AEROSIL® 200
  - AEROSIL® 130
  - AEROSIL® 300

- **Unsaturated Polyester**
  - AEROSIL® 200
  - AEROSIL® 972
  - AEROSIL® R 972

- **Vinylster**
  - AEROSIL® 200
  - AEROSIL® 972

- **Siloxane**
  - AEROSIL® 200
  - AEROSIL® 972

- **Polyurethane**
  - AEROSIL® 200

- **Polyurethaneester**
  - AEROSIL® 200

- **Pressure sensitive water based**
  - AEROSIL® 200
  - AEROSIL® 972

- **Hexolox**
  - AEROSIL® 200
  - AEROSIL® 972

- **Thermoplastic rubber**
  - AEROSIL® 200

- **Polyurethane, water based**
  - AEROSIL® 200
  - AEROSIL® R 972

- **Acrylate, water based**
  - AEROSIL® 200

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- **1-B Silicone (RTV-1)**
  - AEROSIL® 130
  - AEROSIL® 150

- **2-B Silicone (RTV-2)**
  - AEROSIL® 8200
  - AEROSIL® 8215

- **MS/MSP/IP**
  - AEROSIL® R 972
  - AEROSIL® R 974

- **Polyurethane**
  - AEROSIL® 200
  - AEROSIL® 972

- **Acrylate, water based**
  - AEROSIL® 200

- **PVC-Marked**
  - AEROSIL® 200
  - AEROSIL® 300

- **Dissolver**
  - AEROSIL® 972

- **Extruder, Kneader**
  - AEROSIL® 972

- **Dissolver, Planetary-Rotor-Stator**
  - AEROSIL® 972

- **Dissolver, Inline**
  - AEROSIL® 972

- **Press-Mixer, Kneader, Inline Rotor-Stator**
  - AEROSIL® 972

- **Press-Mixer, Kneader, Tripple roll mill**
  - AEROSIL® 972
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