

## Product Information

# AEROSIL® R 972 W

## CAS NUMBER

68611-44-9

## INCI-NAME

Silica Dimethyl Silylate

## PRODUCT DESCRIPTION

AEROSIL® R 972 W is a fumed silica aftertreated with DDS (Dimethyldichlorosilane). The product thickening efficiency of AEROSIL® R 972 W ex RHE is consistent with the Waterford-produced AEROSIL® R 972. This profile is different than the thickening profile of standard RHE quality.

### Typical Properties

| Property                            | Unit              | Value  |
|-------------------------------------|-------------------|--|
| <b>BET Surface Area</b>             | m <sup>2</sup> /g | 90-130   |
| <b>Chemical Name</b>                |                   | Silane, dichlorodimethyl-, reaction products with silica |
| <b>Loss on Drying, max.</b>         | wt%               | 0.5  |
| <b>Loss on Ignition, max.</b>       | wt%               | 2.0  |
| <b>pH Value</b><br>in 4% Dispersion |                   | 3.6-5.5  |
| <b>Tamped Density</b>               | g/l               | 50   |

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

silicone rubber & sealants, adhesives, cosmetics, plant care, coatings

### Product Composition

| Product Composition   | Unit | Value      |
|---|------|------------|
| <b>Carbon (C) Content</b>   | wt%  | 0.6-1.2    |
| <b>Silicon Dioxide (SiO<sub>2</sub>) Content</b><br>based on ignited material | wt%  | 99.8-100.0 |

The data represents typical values (no product specification)

## BENEFITS & ADVANTAGES

- 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
- Improvement and maintenance of free flow and anticaking characteristics of powders

## SAFETY

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Operations, Product Safety Department, E-MAIL [sdsim@evonik.com](mailto:sdsim@evonik.com) We recommend to read carefully the safety data sheet prior to the use of our product.

## PACKAGING

AEROSIL® R972 W is supplied in multiple layer 10 kg bags.

## STORAGE

Our silica products are inert and chemically extremely stable. However, due to their high specific surface area, they can adsorb moisture and volatile organic compounds from the surrounding atmosphere. Products have to be stored in their original packaging (e.g. fully shrink-wrapped) or in sealed containers in a dry place away (or apart) from volatile organic substances. Even if a product is stored in these conditions, it can still pick up ambient moisture after a long time, which can cause it to exceed the stated ex works moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

## SHELF LIFE

24 months

### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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