Product Information

AEROSIL® R 974 W

CAS NUMBER

68611-44-9

INCI-NAME

Silica Dimethyl Silylate

PRODUCT DESCRIPTION

AEROSIL® R 974 W is a hydrophobic fumed silica after-treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 200 m²/g. The product thickening efficiency of AEROSIL® R 974 W ex RHE is consistent with the Waterford-produced AEROSIL® R 974. This profile is different than the thickening profile of standard RHE quality.

Property	Unit	Value
BET Surface Area	m²/g	150-190
Chemical Name		Silane, dichlorodi- methyl-, reaction products with silica
Loss on Drying, max.	wt%	0.5
Loss on Ignition, max.	wt%	2.0
pH Value		3.7-4.7
in 4% Dispersion		
Tamped Density	g/I	50

TYPICAL APPLICATIONS

silicone rubber and sealants, paints and coatings, negative toner, adhesives, plant care, coating, polymers, cosmetics

Product Composition			
Product Composition	Unit	Value	
Carbon (C) Content	wt%	0.7-1.3	
ilicon Dioxide (SiO ₂) Content	wt%	99.8-100.0	

BENEFITS & ADVANTAGES

- Hydrophobic component for thickening and reinforcement of RTV-1 pack silicone sealants
- Improves shelf-life of silicone sealants
- Water resistant, for thickening and 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 anti-caking 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 We recommend to read carefully the safety data sheet prior to the use of our product.

PACKAGING

AEROSIL® R974 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 **SHELF LIFE** works moisture content. For this reason, our recommended 24 months 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.

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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