

Product Information

AEROSIL® R 974

CAS NUMBER

68 611-44-9

INCI-NAME

Silica Dimethyl Silylate

PRODUCT DESCRIPTION

AEROSIL® R 974 is a hydrophobic fumed silica aftertreated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 200 m²/g.

Typical Properties

Property	Unit	Value
BET Surface Area	m ² /g	150-190
Chemical Name		Silane, dichlorodimethyl-, reaction products with silica
Loss on Drying, max.	wt%	0.5
Loss on Ignition, max.	wt%	2.0
pH Value in 4% Dispersion		3.7-5.0
Tamped Density	g/l	50

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

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
Silicon Dioxide (SiO₂) Content	wt%	99.8-100.0

The data represents typical values (no product specification)

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
- Improves hydrophobicity and rheology of offset printing inks
- Improvement and maintenance of free flow and anti-caking characteristics of powders
- Due to large surface area improved thickening and thixotropic effect as well as transparency

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® R 974 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

2 years

Registration Listings

Registry	Status
Australia (AIIC)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes
EU (REACH)	Exempted
European Union (EINECS/ELINCS)	Yes
Japan (ENCS)	not available
South Korea (KECL)	Yes
New Zealand (NZIoC)	not available
Philippines (PICCS)	Yes
Taiwan (TCSI)	not available
United States of America (TSCA)	Yes

Disclaimer

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