

AEROSIL® R 974

Hydrophobic fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	150 - 190
pH value in 4% dispersion		3.7 - 4.7
Loss on drying* 2 hours at 105 °C	%	≤ 0.5
C content	%	0.7 - 1.3
Tamped density* modified	g/l	approx. 50
SiO ₂ content based on ignited material	%	≥ 99.8
* ex plant The data represents typical values (no product specification).		

Registrations (substance or product components)

AEROSIL® R 974

CAS-No.	68 611-44-9
REACH (Europe)	exempted
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
IECSC (China)	registered
PICCS (Philippines)	registered

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.

Applications and properties

Applications

- Silicone rubber and silicone sealants
- Paints and coatings
- Negative toner
- Adhesives
- Coating polymers
- Cosmetics

Properties

- 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 and handling

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 sds-im@evonik.com We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

AEROSIL® R 974 is supplied in multiple layer 10 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROSIL® R 974 should be used within 2 years after production.

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Customer Service

Europe/ Middle-East/ Africa/ Latin America

Evonik Operations GmbH

Business Line Silica
PB 010-A410
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 12532
FAX +49 6181 59 712532
aerosil@evonik.com
www.silica-specialist.com

North America Evonik Corporation

Business Line Silica
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE +1 800-233-8052
FAX +1 973-929-8502
aerosil@evonik.com
www.silica-specialist.com

Asia (excluding Japan) Evonik (SEA) Pte. Ltd.

Business Line Silica
3 International Business Park
Nordic European Centre, #07-18
Singapore 609927
PHONE +65 6809-6877
FAX +65 6809-6677
aerosil@evonik.com
www.silica-specialist.com

Japan NIPPON AEROSIL CO., LTD.

Marketing & Sales Division
P.O. Box 7015
Shinjuku Monolith 13F
3-1, Nishi-Shinjuku 2-chrome
Shinjuku-ku, Tokyo
163-0913 Japan
PHONE +81 3 3342-1789
FAX +81 3 3342-1761
infonac@evonik.com
www.aerosil.jp

Technical Service

Europe/ Middle-East/ Africa/ Latin America

Evonik Operations

Business Line Silica
HPC 911-221 A
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59-3936
FAX +49 6181 59 4489
technical.service.aerosil@evonik.com
www.silica-specialist.com

North America Evonik Corporation

Business Line Silica
2 Turner Place
Piscataway, NJ 08855-0365
USA
PHONE +1 888 SILICAS
PHONE +1 732 981-5000
FAX +1 732 981-5275
technical.service.aerosil@evonik.com
www.silica-specialist.com

Asia (excluding Japan) Evonik Specialty Chemicals (Shanghai) Co.,Ltd

Business Line Silica
55 Chundong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China
PHONE +86 21 6119-1151
FAX +86 21 6119-1075
technical.service.aerosil@evonik.com
www.silica-specialist.com

Japan NIPPON AEROSIL CO., LTD.

Applied Technology Group
3 Mita-Cho
Yokkaichi, Mie
510-0841 Japan
PHONE +81 59 345-5270
FAX +81 59 346-4657
infonac@evonik.com
www.aerosil.jp