

AEROSIL® R 972 V

Densified hydrophobic fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	110 ± 20
Carbon content	wt.%	0.6 - 1.2
Tamped density* acc. to DIN EN ISO 787/11, Aug. 1983	g/l	approx. 90
Moisture* 2 hours at 105 °C	wt.%	≤ 0.5
Ignition loss 2 hours at 1000°C based on material dried for 2 hours at 105 °C	wt.%	≤ 2.0
pH in 4% dispersion		3.6 - 4.4
SiO ₂ -content based on ignited material	wt.%	≥ 99,8
* ex plant The data represents typical values (no product specification).		

Registration

AEROSIL® R 972 V

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

AEROSIL® R 972 V is a densified hydrophobic fumed silica after treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 130 m²/g.

Applications and properties

Applications

- Silicone rubber
- Paints and coatings
- Printing inks and toner
- Adhesives
- Cable compounds and gels

Properties

- Hydrophobic reinforcing component for HCR-silicone rubber.
- 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.
- Improves hydrophobicity and rheology of offset printing inks.
- Reduced dust development.
- Improvement and maintenance of free flow and anti-caking characteristics of powders.
- Improved incorporation and handling when applying sufficient shear forces.

Safety and handling

Information concerning the safety of this product is listed in the corresponding Material Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com or can be downloaded from our homepage www.aerosil.com. We recommend to read carefully the material safety data sheet prior to the use of our product.

Packaging and storage

AEROSIL® R 972 V is supplied in multiple layer 15 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROSIL® R 972 V should be used within 2 years after production.

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Customer Service

Europe/ Middle-East/ Africa/ Latin America

Evonik Industries AG
Inorganic Materials
PB 010-A410
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59 12532
FAX +49 6181 59 712532
aerosil@evonik.com
www.aerosil.com

North America

Evonik Corporation
Inorganic Materials
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE +1 800-233-8052
FAX +1 973-929-8502
aerosil@evonik.com
www.aerosil.com

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

Inorganic Materials
3 International Business Park
Nordic European Centre, #07-18
Singapore 609927
PHONE +65 6809-6877
FAX +65 6809-6677
aerosil@evonik.com
www.aerosil.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 Industries AG
Inorganic Materials
HPC 911-221 A
Rodenbacher Chaussee 4
63403 Hanau-Wolfgang
Germany
PHONE +49 6181 59-3936
FAX +49 6181 59 4489
technical.service.aerosil@evonik.com
www.aerosil.com

North America

Evonik Corporation
Inorganic Materials
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.aerosil.com

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

Inorganic Materials
55 Chundong Road
Xinzhuan Industry Park
Shanghai 201108
P.R. China
PHONE +86 21 6119-1065
FAX +86 21 6119-1075
technical.service.aerosil@evonik.com
www.aerosil.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