

Product information

AEROSIL[®] R 202

Hydrophobic fumed silica

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Characteristic physico-chemical data		
Unit	Value	
m²/g	80 - 120	
	4.0 - 6.0	
%	≤ 0.5	
%	3.5 - 5.0	
g/l	арргох. 60	
%	≥ 99.8	
* ex plant The data represents typical values (no product specification)		
	Unit m²/g % % % g/l %	

Registrations (substance or product components)

AEROSIL® R 202	
CAS-No.	67762-90-7
REACH (Europe)	registered
TSCA (USA) DSL (Canada)	registered
ENCS (Japan) IECSC (China) KECI (Korea) CSNN (Taiwan) PICCS (Philippines)	registered
AICS (Australia) NZIoC (New Zealand)	registered

AEROSIL® R 202 is a fumed silica surface-treated with polydimethylsiloxane.

Applications and properties

Properties

- The silicone oil treatment guarantees the marked hydrophobia of the product
- Highly efficient effect in the thickening and thixotropy of complex polar liquids, such as those based on epoxy, polyurethane, or vinylester resins
- Improves the water resistance of moisture-sensitive formulations, such as cosmetic preparations
- Improvement of the anti-settling behavior of pigments and anti-sagging behavior in 2-C epoxy coatings.
- With silicone oil treatment, AEROSIL® R 202 offers a tailor-made chemical surface treatment.
- Due to its excellent electrical insulating ability and low water absorption, this hydrophobized, small-particle silica easily acquires and conserves electrical charge. It is therefore typically used as a surface additive for toner particles in order to increase charge and improve flowability.
- The high hydrophobicity of PDMS-treated, small particle AEROSIL® grades makes them particularly effective for achieving a high tribo-charge.
- At the same time, PDMS-treated, small particle AEROSIL® grades maintain good flowability.
- The slightly oily effect of the PDMS treatment provides additional benefits in some printing processes.

Applications

- Thickening and thixotropy control of adhesives and sealants for fiberoptic cables
- Thickening and thixotropy control of epoxy and vinylester resins and gelcoats
- Thickening and thixotropy control of cable gels, lubricants, and cosmetic formulations
- Booster silica for defoamer formulations
- Anti-sedimentation aid for fillers, such as chalk or quartz powder
- Additive for formulation of anti-corrosion systems
- Improves flowability of powders
- Enables achieving of a high tribo-charge

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 Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com or can be downloaded from our homepage www.aerosil.com. We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

AEROSIL® R 202 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 202 should be used within 2 years after production.

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Customer Service

Europe/ Middle-East/ Africa/ Latin America Evonik Resource Efficiency 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.aerosil.com

Technical Service

Europe/ Middle-East/ Africa/ Latin America Evonik Resource Efficiency GmbH Business Line Silica 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 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.aerosil.com

North America

Business Line Silica

2 Turner Place

evonik.com

www.aerosil.com

LISA

Evonik Corporation

Piscataway, NJ 08855-0365

PHONE +1 888 SILICAS

FAX +1 732 981-5275

technical.service.aerosil@

PHONE +1 732 981-5000

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.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

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 6119-1065 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

