

# AEROSIL® OX 50

## Hydrophilic fumed silica

### Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m <sup>2</sup> /g	35 - 65
pH value in 4% Dispersion		3.8 - 4.8
Loss on drying* 2 hours at 105°C	%	≤ 1.5
Tamped density*	g/l	approx. 100
Sieve residue (by Mocker, 45µm)	%	≤ 0.200
SiO <sub>2</sub> content based on ignited material	%	≥ 99.8
* ex plant The data represents typical values (no product specification)		

### Registrations (substance or product components)

#### AEROSIL® OX 50

CAS-No.	112 945-52-5 (ex 7631-86-9)
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® OX 50 is a fumed silica with a very low specific surface area, low thickening, and high purity. The product can be used as an additive or as a raw material. In polymer composites, high filler loading can be achieved, making it possible to control essential characteristics of polymers.

### Applications and properties

#### Properties

- Low thickening properties for high filler loading
- High tamped density
- Improvement in physicochemical characteristics of polymers, such as dielectric properties, optical properties, surface roughness, density, and hardness
- High purity

#### Applications

- Raw material for the production of ultra-pure glasses using the sol-gel process
- Additive in ceramics to control sintering activity or as raw material
- Filler in thermoplastic polymers and silicones
- Filler in composite materials
- Anti-blocking additive for polymer films with good transparency

## Packaging and storage

AEROSIL® OX 50 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® OX 50 should be used within 2 years after production.

## 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](mailto:sds-im@evonik.com) We recommend to read carefully the safety data sheet prior to the use of our product.

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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](mailto:aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:infonac@evonik.com)  
[www.aerosil.jp](http://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](mailto:technical.service.aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:technical.service.aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:technical.service.aerosil@evonik.com)  
[www.silica-specialist.com](http://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](mailto:infonac@evonik.com)  
[www.aerosil.jp](http://www.aerosil.jp)