

# 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

A safety data sheet will be provided with your first delivery and with subsequent revisions. Additionally, the Product Safety Department of Evonik Resource Efficiency GmbH can be contacted via mail at [sds-hu@evonik.com](mailto:sds-hu@evonik.com) for specific questions. We recommend to reach the safety data sheet carefully prior to use of the product.

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