

AEROSIL® OX 50

Hydrophilic fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /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 ₂ 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 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.

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