

AEROSIL® RM 50

Surface modified fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	20 - 50
C content	wt.%	1.5 - 4.5
Tamped Density	g/l	approx. 130
Loss on drying* 2 hours at 105 °C	wt.%	≤ 2.5
Ignition loss 2 hours at 1000 °C, based on material dried for 2 hours at 105 °C	wt.%	≤ 6.0
pH* in 4% dispersion		4.5 - 7.5
SiO ₂ - content based on ignited material	wt.%	> 99.8

* ex plant
The data represents typical values (no product specification).

Registrations (substance or product components)

AEROSIL® RM 50

CAS-No.	100 402-78-6
REACH (Europe)	exempted
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
IECSC (China)	registered
KECI (Korea)	registered
PICCS (Philippines)	registered

AEROSIL® RM 50 is a fumed silica after treated with a methacrylsilane.

Applications and properties

Application

- Dental composites
- Lithium ion batteries

Properties

- Effective rheology control in complex composite formulations
- Increased hardness of the composite material due to high loading level, which can be achieved by the use of AEROSIL® RM 50
- Good incorporation behavior and processability

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 We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

AEROSIL® RM 50 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® RM 50 should be used within one year after production.

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