

AEROSIL® R 709

Surface modified fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	25 - 45
pH value in 4% dispersion		4.5 - 7.5
Loss on drying* 2 hours at 105 °C	%	≤ 2.5
Carbon content	%	1.5 - 3.5
Tamped density*	g/l	approx. 130
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® R 709

CAS-No.	100 402-78-6
REACH (Europe)	exempted
TSCA (USA) DSL (Canada)	registered
ENCS (Japan)	registered
AICS (Australia)	registered

AEROSIL® R 709 is a fumed silica aftertreated with a methacrylsilane.

Applications and properties

Applications

- Dental composites

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® R 709
- Good incorporation behavior and processability

Packaging and storage

AEROSIL® R 709 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 709 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 for specific questions. We recommend to read the safety data sheet carefully prior to use of the product.

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