

# AEROSIL® R 208

## Hydrophobic fumed silica

### Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m <sup>2</sup> /g	80 - 140
pH value in 4% dispersion		4.5 - 6.5
Loss on drying* 2 hours at 105 °C	%	≤ 0.5
C content based on ignited material	%	4.5 - 6.5
Tamped density*	g/l	approx. 60
SiO <sub>2</sub> content	%	≥ 99.8
* ex plant The data represents typical values (no product specification)		

### Registrations (substance or product components)

#### AEROSIL® R 208

CAS-No.	67762-90-7
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® R 208 is a fumed silica aftertreated with polydimethylsiloxane with excellent thickening properties.

### Applications and properties

#### Properties:

- The silicone oil treatment guarantees the very marked hydrophobia of the product
- Very efficient effect in the thickening and thixotropy of complex polar liquids, such as those based on epoxy, polyurethane, or vinyl ester resins
- Improves the water resistance of moisture-sensitive formulations, such as cosmetic preparations
- Improvement of the anti-settling behavior of pigments and anti-sagging behavior in 2-C epoxy coatings.
- With silicone oil treatment, AEROSIL® R 208 offers a tailor-made chemical surface treatment.
- Due to its excellent electrical insulating ability and low water absorption, this hydrophobized, small-particle silica easily acquires and conserves electrical charge. It is therefore typically used as a surface additive for toner particles in order to increase charge and improve flowability.
- The high hydrophobicity of PDMS-treated, small particle AEROSIL® grades makes them particularly effective for achieving a high tribo-charge.
- At the same time, PDMS-treated, small particle AEROSIL® grades maintain good flowability.
- The slightly oily effect of the PDMS treatment provides additional benefits in some printing processes.

#### Applications:

- Thickening and thixotropy control of adhesives and sealants for fiberoptic cables
- Thickening and thixotropy control of epoxy and vinyl ester resins and gelcoats
- Thickening and thixotropy control of cable gels, lubricants, and cosmetic formulations
- Booster silica for defoamer formulations
- Anti-sedimentation aid for fillers, such as chalk or quartz powder
- Additive for formulation of anti-corrosion systems
- Improves flowability of powders
- Enables achieving of a high tribo-charge

## Packaging and storage

AEROSIL® R 208 is supplied in multiple layer 10 kg bags. We recommend storage of the product in closed containers under dry conditions as well as protection from volatile substances. AEROSIL® R 208 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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