

AEROSIL® R 812

Hydrophobic fumed silica

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	230 - 290
pH value in 4% dispersion		5.5 - 8.0
Loss on drying* 2 hours at 105 °C	%	≤ 0.5
C content	%	2.0 - 3.0
Tamped density* modified	g/l	approx. 60
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 812

CAS-No.	68 909-20-6
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 812 is a fumed silica aftertreated with organosilane (HMDS) with high specific surface and marked hydrophobia.

Applications and properties

Properties

- The product has a large specific surface area and is very hydrophobic
- Good flowability and dispersion properties
- Excellent effect in the rheological control of complex liquid systems (such as 2 K PUR coatings)
- Because of the fineness of the particles and the very marked hydrophobia, the product acts as an excellent flow agent for fine powders up to 1 µm

Applications

- Very efficient rheological control additive and also used for thixotropy control in polar to semi-polar coating systems and in adhesive and sealant materials
- Efficient effect as flow agent in very different applications, such as powder coatings, toners, or cosmetics
- Enhances the anti-corrosion properties for coatings
- To improve the storage stability of oil dispersions in agrochemicals
- Improves the mechanical properties of various polymer systems, such as silicone rubber
- In coatings and adhesives, AEROSIL® R 812 acts as an anti-settling agent, stabilizes pigments, and increases the anti-corrosive effect

Packaging and storage

AEROSIL® R 812 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 812 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 reach the safety data sheet carefully prior to use of the product.

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