

Product Information

▶ **AEROSIL® R 974** **Hydrophobic Fumed Silica**

AEROSIL® R 974 is a hydrophobic fumed silica after treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 200 m²/g

Applications and Properties

Applications

- Silicone rubber and silicone sealants
- Paints and coatings
- Negative toner
- Adhesives
- Coating polymers

Properties

- Hydrophobic component for thickening and reinforcement of RTV-1 pack silicone sealants.
- Improves shelf-life of silicone sealants.
- Water resistant, for thickening and hydrophobising of liquid systems.
- Rheology control of (complex) liquid systems.
- For use in coatings as anti-settling agent, for pigment stabilization and improvement of corrosion protection.
- Improves hydrophobicity and rheology of offset printing inks.
- Improvement and maintenance of free flow and anti-caking characteristics of powders.
- Due to large surface area improved thickening and thixotropic effect as well as transparency.

Physico-chemical Data

Properties	Unit	Typical Value
Specific surface area (BET)	m ² /g	170 ± 20
Carbon content	wt. %	0.7 – 1.3
Average primary particle size	nm	12
Tapped density* (approx. value) acc. to DIN EN ISO 787/11, Aug. 1983	g/l	approx. 50
Moisture * 2 hours at 105 °C	g/l	≤ 0.5
Ignition loss , 2 hours at 1000 °C, based on material dried for 2 hours at 105 °C	wt. %	≤ 2.0
pH in 4% dispersion		3.7 – 4.7
SiO₂-content based on ignited material	wt. %	≥ 99.8

* ex plant

The data represents typical values and not production parameters.

Safety and Handling

With every sample or initial shipment of our products we will send a Material Safety Data Sheet. Of course you can also ask at any time for a MSDS or any other information regarding product safety.

Packing and Storage

AEROSIL® R 974 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 974 should be used within 2 years after production.

Registration

	CAS-No.	EINECS	TSCA (USA) AICS (Australia) CEPA (Canada) PICCS (Philippines) IECS (China)	MITI (Japan)	ECL (Korea)
AEROSIL® R 974	68 611-44-9	271-893-4	Registered	1-548 / 7-476	KE-10116

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