

COSMOS PLASTICS & CHEMICALS

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AEROSIL® R 972

Hydrophobic Fumed Silica

Applications

Properties

AEROSIL® R 972 is a hydrophobic fumed silica after treated with DDS (Dimethyldichlorosilane) based on a hydrophilic fumed silica with a specific surface area of 130 m²/g

Properties	Unit	Typical Value
Specific surface area (BET)	m ² /g	110 ± 20
Carbon content	wt. %	0.6 – 1.2
Average primary particle size	nm	16
Tapped density* <i>(approx. value) acc.to DIN EN ISO 787/11, Aug. 1983</i>	g/l	approx. 50
Moisture * <i>2 hours at 105 °C</i>	wt. %	≤ 0.5
Ignition loss, <i>2 hours at 1000 °C, based on material dried for 2 hours at 105 °C</i>	wt. %	≤ 2.0
pH <i>in 4% dispersion</i>		3.6 – 4.4
SiO ₂ -content <i>based on ignited material</i>	wt. %	≥ 99.8

Applications

- Silicone rubber and silicone sealants
- Paints and coatings
- Printing inks and toner
- Adhesives
- Cable compounds and gels
- Plant protection

Properties

- Hydrophobic component for thickening and reinforcement of RTV-1 K silicone sealants.
- Improves shelf-life of silicone sealants.
- Water resistant, 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.

Safety and Handling Packing and Storage

Registration

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.

AEROSIL® R 972 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 972 should be used within 2 years after production.

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