

## Quartzene<sup>®</sup>, Z1H1 – AEROGEL POWDER

## Product Description

**Quartzene®**, **Z1H1 aerogel consists of amorphous hydrophobic** methylated silicon dioxide, CAS No. 68909-20-6. Quartzene is in most applications used as a functional additive. As manufacturer of, for instance, paint, plaster, building panels or sealants, you can improve the sustainable performance of your products by adding Quartzene. The water repellent nature makes it suitable for products and applications where moisture absorption cannot be accepted. Even if it is strongly hydrophobic, it can, for instance, be incorporated into a range of different waterborne acrylics, polyurethanes, and vinyl-acetates to create highly insulating coatings and plasters. It can also be used in building panels, sealants and similar products. The low density will bring down the weight of products and can replace fossil plastic.



- HYDROPHOBIC AEROGEL POWDER
- SUPER-LOW THERMAL CONDUCTIVITY
- WELL DEFINED SMALL PARTICLE SIZE

## **Product Features**

Appearance	White powder
Surface character	Hydrophobic
Solubility	Insoluble in water
Tapped density	0.10 – 0.15 kg/l
Thermal conductivity	28 – 31 mW/m·K (@ 20 °C and Patm)
Maximum Temperature	400 °C
BET Surface area	120 – 220 m²/g
Typical Pore Size	~ 6 nm
Particle size distribution	Range: 1-14 µm
	D <sub>v</sub> 10 ~ 2 μm
	D <sub>v</sub> 50 ~ 4 μm
	D <sub>v</sub> 90 ~ 10 µm

## KEY APPLICATION AREAS

Due to its versatile nature, Quartzene® can be used in multiple application areas such as:

- Building & Construction
- Transportation
- Process Industry
- Pulp & Paper

Typical test data. Not intended as a specification.

Information concerning the safety of this product is listed in the Safety Data Sheet, which can be ordered from Svenska Aerogel AB. For more information on sampling, project guidance and other information, contact us at: info@aerogel.se

The above information is based on the data of which we are aware and believe to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information. We do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for this particular use.