

## Quartzene<sup>®</sup>, Z1 - AEROGEL POWDER

### Product Description

Quartzene<sup>®</sup>, Z1 aerogel consists of amorphous hydrophilic silicon dioxide, CAS No. 112926-00-8. 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 main purpose is to improve insulation, reduce material consumption and weight, replace plastic and increase safety - often Quartzene contributes to a combination of these in one and the same solution. Quartzene offers similar material properties as classic aerogels but is more sustainable due to the raw materials and the simplified, and much less resource demanding and patented manufacturing process.



- HYDROPHILIC AEROGEL POWDER
- SUPER-LOW THERMAL CONDUCTIVITY
- NON-COMBUSTIBLE
- WELL DEFINED SMALL PARTICLE SIZE

### Product Features

<b>Appearance and odor</b>	White, no odor
<b>Surface character</b>	Hydrophilic
<b>Solubility</b>	Insoluble in water
<b>Tapped density</b>	0.05 - 0.12 kg/l
<b>Thermal conductivity</b>	25 - 31 mW/m·K (@ 20 °C and P <sub>atm</sub> )
<b>Porosity</b>	95 - 97 %
<b>BET Surface area</b>	200 - 550 m <sup>2</sup> /g
<b>Typical Pore Size</b>	~ 6 nm
<b>Particle size distribution</b>	Range: 1-14 µm
	D <sub>v10</sub> ~ 2 µm
	D <sub>v50</sub> ~ 4 µm
	D <sub>v90</sub> ~ 9 µm

*Typical test data. Not intended as a specification.*

### KEY APPLICATION AREAS

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

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

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](mailto:info@aerogel.se)

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