

# 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

Appearance	White powder
Surface character	Hydrophilic
Solubility	Insoluble in water
Tapped density	0.05 – 0.10 kg/l
Thermal conductivity	25 – 31 mW/m·K (@ 20 °C and P <sub>atm</sub> )
BET Surface area	200 – 600 m <sup>2</sup> /g
Typical Pore Size	~ 6 nm
Particle size distribution	Range: 1-14 µm
	D <sub>v10</sub> ~ 2 µm
	D <sub>v50</sub> ~ 4 µm
	D <sub>v90</sub> ~ 10 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)