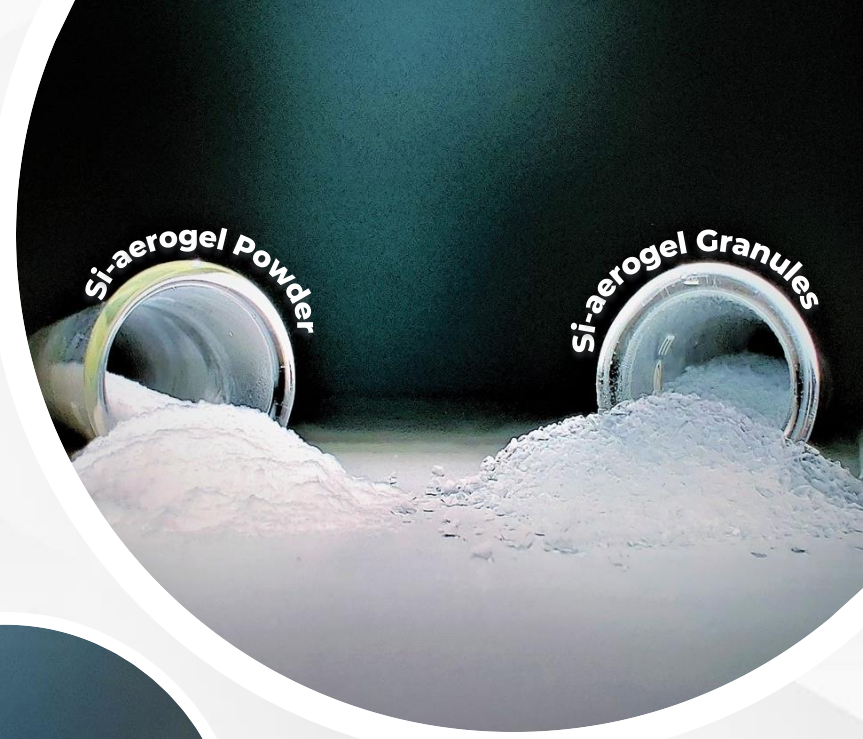
KL QuintAero™ Silica Aerogel Particles

Key properties

Property	QuintAero™ 100 Si-Aerogel powder	QuintAero™ 1000 Si-Aerogel granules
Thermal Conductivity (W / mK)	0.012 - 0.016	0.012 - 0.016
Particle size range (µm)	<100 um [D90]	<1000 um [D90]
Bulk Density (kg/m3)	80 - 120	80 - 120
Porosity	>90%	>90%
Pore Diameter (nm)	~ 20 nm	~ 20 nm
Specific Surface Area (m2/g)	600 - 800	600 - 800
Surface Chemistry	Superhydrophobic	Superhydrophobic
Color	White	Translucent



Applications & Benefits of QuintAero™ Particles

Si-Aerogel's unique set of tuneable properties enable them to be incorporated into a diverse set of solutions, such as:

High-performance Insulating Paints & Coatings

- The **ultra-low thermal conductivity** of the particles (as low as ~0.012 W/m.K, far lower than any other type of additive) can dramatically enhance the insulating performance of coatings.
- Effectively **prevents condensation**
- Much less coating need be used to achieve the same performance, **saving on both materials and labour cost**.
- The **super-hydrophobic** properties of KL's Aerogels make them a **strong barrier to CUI**

Decorative coatings: the **ultra-high surface area** of the particles make **highly effective for matting** applications; a high degree of light diffusion can be achieved even at very low loading levels <3%

Fire-proofing & intumescents coatings

- KL's Si-aerogel particles also being **inherently non-combustible** make them an ideal candidate for **stopping both fire & heat**. With the incorporation of aerogel particles, less coating would be required to achieve desired fire rating.

KrossLinker can further **customize particle size and surface chemistry** to enhance the compatibility for the given solutions.

Krosslinker's Aerogel fabrication technology serves as a platform for industry players to collaborate and co-develop integrated Aerogel solutions for a plethora of new applications

Get in touch to find out more...