

## Technical Data Sheet

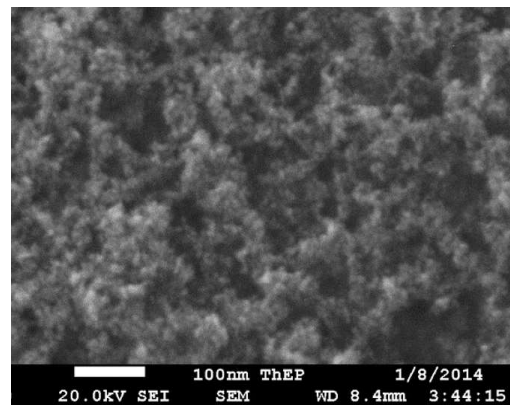
### AEROS-N™: Aerogel Powder

AEROS-N™ is a silica aerogel powder. It is an ideal additive for existing building, industrial, and coating products which provides keys solutions to common applications. Performance benefits include:

- Ultra low thermal conductivity
- Complete hydrophobicity, water repellent
- Extreme temperature resistance
- Weight reduction
- Sound attenuation
- Safe touch performance for personal protection

### Applications

- Advance Thermal Insulation Coatings
- Insulation Blankets
- Insulation filler
- Exterior and Interior Insulation Plasters
- Cement, Perlite Composites
- Gypsum Boards
- Plastic Composites
- Absorbent



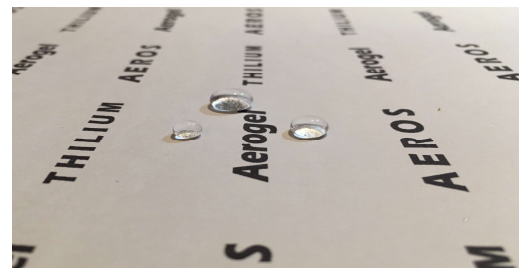
Scanning electron microscope (SEM) image

### Properties of AEROS-N™ Aerogel Powder

<u>Features</u>	<u>AEROS-N™ Powder</u>
Particle Size Range	100-1000 $\mu\text{m}$
Pore Diameter	20 nm (mean)
Bulk Density	$\sim 0.10 \text{ g/cm}^3$
Surface Chemistry	hydrophobic
Thermal Conductivity	$\sim 0.02 \text{ W/m}\cdot\text{K}$
Surface Area	$\sim 800 \text{ m}^2/\text{g}$
Porosity	$> 90\%$



AEROS-N™ Aerogel Powder



Super hydrophobic coating