



AEROGEL Particles and Powder

Huatao Nano Silica Aerogel Particles known as the best thermal insulation and the lightest solid in the world

Aerogels known as solid smoke, solid air or blue smoke are currently, known as the lightest and best performing thermal insulation material in solid materials, its volume more than 90% of them are made up of tiny nano-holes and three-dimensional nano-networks. The silicon oxide hole wall is formed. After years of hard work, our factory has finally developed a the most economical aerogel production process to meet industrial insulation and other collars, the needs of the domain.



Application advantages:

- ✧ Very low thermal conductivity – making high-performance nano-insulation materials
- ✧ Unique nanostructures – making new gas filter materials
- ✧ High specific surface area – making super energy storage materials or catalyst carriers
- ✧ High porosity – making cushioning materials that can be used to capture space High-speed particles make it “soft landing.”
- ✧ The sound impedance has a wide variable range—Making the acoustic resistance of the ultrasonic detector Coupling material.

Performance:

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|-----------------------|--|
| Product Form | Powder or Particles |
| Thermal Conductivity | 0.017-0.023W/m.k (at25°C) |
| Bulk density | 40-150kg/m ³ |
| Specific surface area | 500~650 m ² /g |
| Porosity | >90 % |
| Particle Size Range | >0.5mm, or upon request |
| Hydrophobic | two types of hydrophobic and hydrophilic |
| Silica purity | >99% |
| Pore Diameter | 20-100nm |

Applicable areas:

- Unparalleled insulation effect
- Excellent light dispersion
- Good chemical stability
- High porosity, high specific surface area
- Nano-scale pores, very low density
- can improve acoustic performance



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