

Making Aerogel Part of Lives

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Enterprise  
Official account



AGTECH



中凝科技  
AEROGEL TECHNOLOGY



Industry



Architecture



EV Battery



Equipment





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#### Shenzhen Aerogel Technology Co.,Ltd

- An International High-Tech Leader specializing in aerogel R&D, production, sales, and technical solutions.
- Over 100 domestic and international patents, driving continuous innovation.
- Asia's largest aerogel manufacturer, with industry-leading mass production capabilities more than 1100 ton per year.

#### Corporate vision

To be the world's leading aerogel innovator and solution provider.

#### Corporate mission

Empowering industries with cutting-edge aerogel technology — enhancing energy efficiency, sustainability, and performance.

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# Aerogel +

Leading Global Supplier & Technical Solutions Provider

2015<sup>y</sup>

Established

100+

Domestic and  
foreign patents

70 %

Aerogel powder  
domestic share

1100 t

Aerogel powder annual  
production capacity

25,000 cubic meters of aerogel blanket

1,100 tons of aerogel powder

25,000 tons of aerogel coatings

100,000 cubic meters of aerogel composite non-combustible insulation boards

Shenzhen Aerogel Technology Co., Ltd. is a globally recognized high-tech enterprise specializing in the R&D, production, and technical application of aerogels and composite materials. As a pioneer in aerogel industrialization, we have established a comprehensive product portfolio and extensive expertise in aerogel applications.

AG Tech has successfully developed industry-leading normal pressure and supercritical drying technologies, leading the way in continuous, large-scale aerogel production. We are the first company in China's aerogel industry to be awarded the National-Level "Giant" Enterprise Certification, recognizing our excellence in specialization and innovation.

Our operations span three strategic locations:

Shenzhen Headquarters-R&D Center and Bay Area Intelligent Manufacturing Facility.

Hubei Xiantao & Shanxi Yangquan – Large-scale production bases

With an annual production capacity of:

Our state-of-the-art manufacturing facilities and advanced production capabilities position us as a leading supplier in Asia and global markets, ensuring reliable, high-quality aerogel solutions for industrial-scale applications.

## AG Tech's 5 firsts

- In 1999, Mr. Wang Haibo, AG Tech's technical leader, invented China's first hydrogel antipyretic patch, paving the way for domestic gel materials.
- AG Tech was the principal drafter of China's first national aerogel standard, playing a key role in setting industry benchmarks.
- The first enterprise in the country to achieve the production capacity of atmospheric pressure aerogel powder reaching 100 tons and 1,000 tons;
- AG Tech pioneered the development and production of aerogel coatings, aerogel-based inorganic insulation mortar, and non-combustible aerogel composite insulation boards in China.
- AG Tech is the first company in China to develop and manufacture GF-patented battery core insulation sheet products, enhancing energy efficiency and safety in battery applications.

# COMPANY PROFILE

## 发展历程

### 2015-2016

Shenzhen Aerogel Technology Co., Ltd. was registered and established.

The first phase of the production line in Xiantao City, Hubei Province was officially completed.

Cooperated with Beijing District Heating Group for the first time and won the project bid of RMB 26.004 million.

The first company in China to achieve 100 tons/year aerogel powder production capacity.

### 2017-2018

Aerogel blanket was put into production, and the chlorine-free and alcohol-free process was the first in the world.

The world's first tunnel-type aerogel production line in Hubei factory is fully operational.

The first phase of Yangzhong New Materials was officially put into production, with an annual production capacity of 20,000 cubic meters of aerogel blanket, 1,000 tons of aerogel powder and 20,000 tons of aerogel coatings.

### 2019-2020

The first phase of the new factory YZ NEW MATERIALS started with a total investment of 520 million.

The annual production scale of YZ NEW MATERIALS is 20,000 cubic meters of aerogel blanket, 1,000 tons of aerogel powder and 20,000 tons of aerogel coatings.

A 200-meter coating line has been put online, with the production and processing capabilities of aerogel insulation film, aerogel battery core insulation sheet and vehicle fireproof insulation materials.

Jointly established with Northwestern Polytechnical University: New Materials Joint Laboratory, Thermal Management Technology Joint Laboratory.

Become the designated supplier of Geely EV battery cell insulation sheets.

### 2023-2025

Won the 2023 Guangdong Province Manufacturing Single Champion Enterprise (Product).

Winning Bid: Sinopec 2023-2024 Framework Agreement.

Aergel Technology's aerogel achievement was included in the Sinograin Scientific & Technological Achievements Promotion Catalog (2023 Edition).

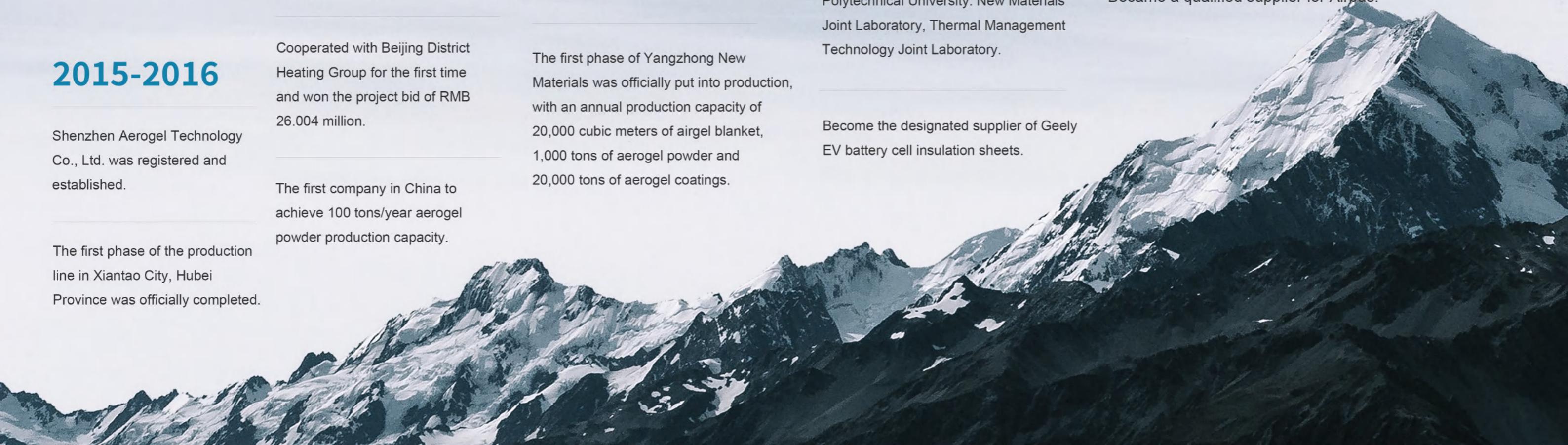
Awarded the Second-Class Prize in the 2024 China Machinery Industry Science and Technology Award.

Successfully passed the reassessment as a National "Little Giant" Enterprise.

Contributed to the compilation of the Shanghai Regional Standard "Technical Standard for Application of Thermal Insulation Coatings in Buildings".

Designated as a "Shenzhen Gazelle Enterprise".

Became a qualified supplier for Airbus.





Aerogel powder



Aerogel powder warehouse



Aerogel insulation blanket



Aerogel insulation blanket warehouse



Aerogel coating



Aerogel battery cell  
insulating GF blanket base material



Aerogel battery core insulation  
sheet-packaged finished product

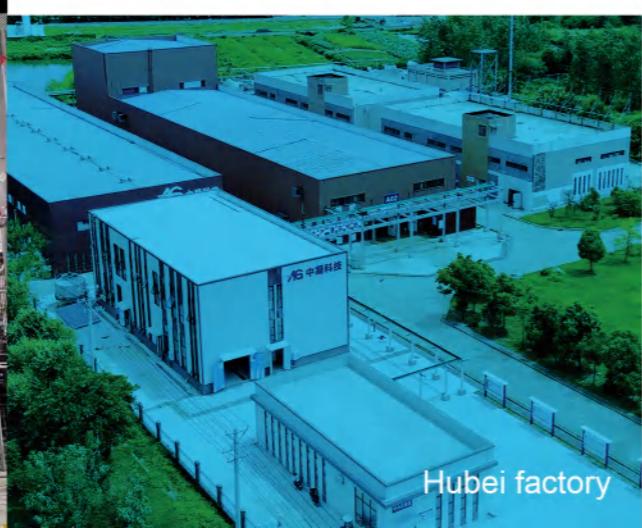


## 主要合作伙伴

### MAJOR PARTNER



Production workshop



Hubei factory



Production workshop



Shanxi factory



Testing room



Aerogel coating processing



Aerogel paint warehouse

# HONORARY QUALIFICATION

## 荣誉

### Patents:

1. A kind of preparation method of elastic aerogel
2. Preparation method and application of silica aerogel
3. An aerogel polyvinyl chloride material and its preparation method
4. A kind of preparation method of aerogel thermal insulation blanket
5. A method of preparing composite  $\text{SiO}_2$  aerogel blanket
6. Hollow fiber membrane and preparation method thereof

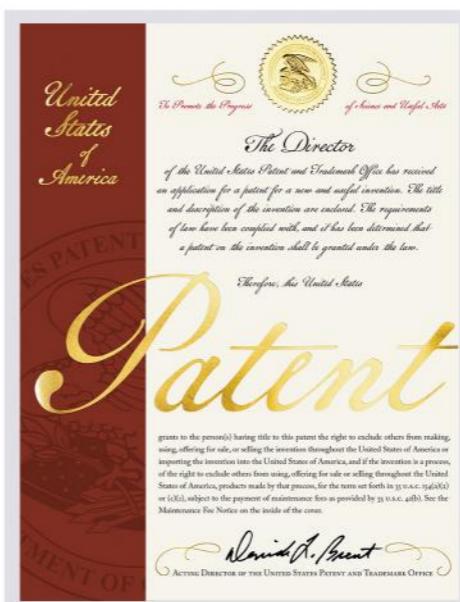
7. An aerogel waterproof membrane
8. Thermal insulation blanket
9. Soundproof and thermal insulation composite structure
10. An aerogel thermal insulation tube
11. A spray-type aerogel blanket
12. An aerogel artificial stone

### Qualification

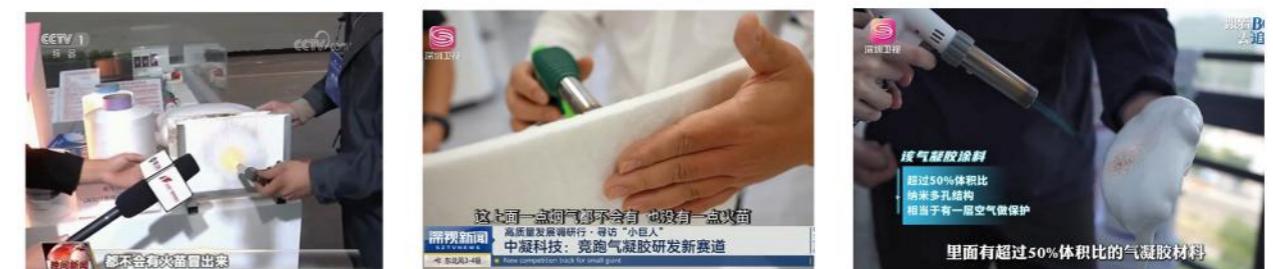
1. IATF 16949:2016
2. CE certification
3. Quality management system certification
4. Occupational Health and Safety Management System Certification Certificate
5. Environmental management system certification
6. Carbon Footprint-Composite Non-combustible Insulation Board
7. Carbon Footprint-Aerogel Insulation Coating



### ● GF battery cell heat insulation sheet has Chinese and US invention patents



### ● Media reports



# AEROGEL INTRODUCTION

## 气凝胶介绍

### THE BEST SOLID MATERIAL FOR THERMAL INSULATION - AEROGEL



#### Material of worldwide interest

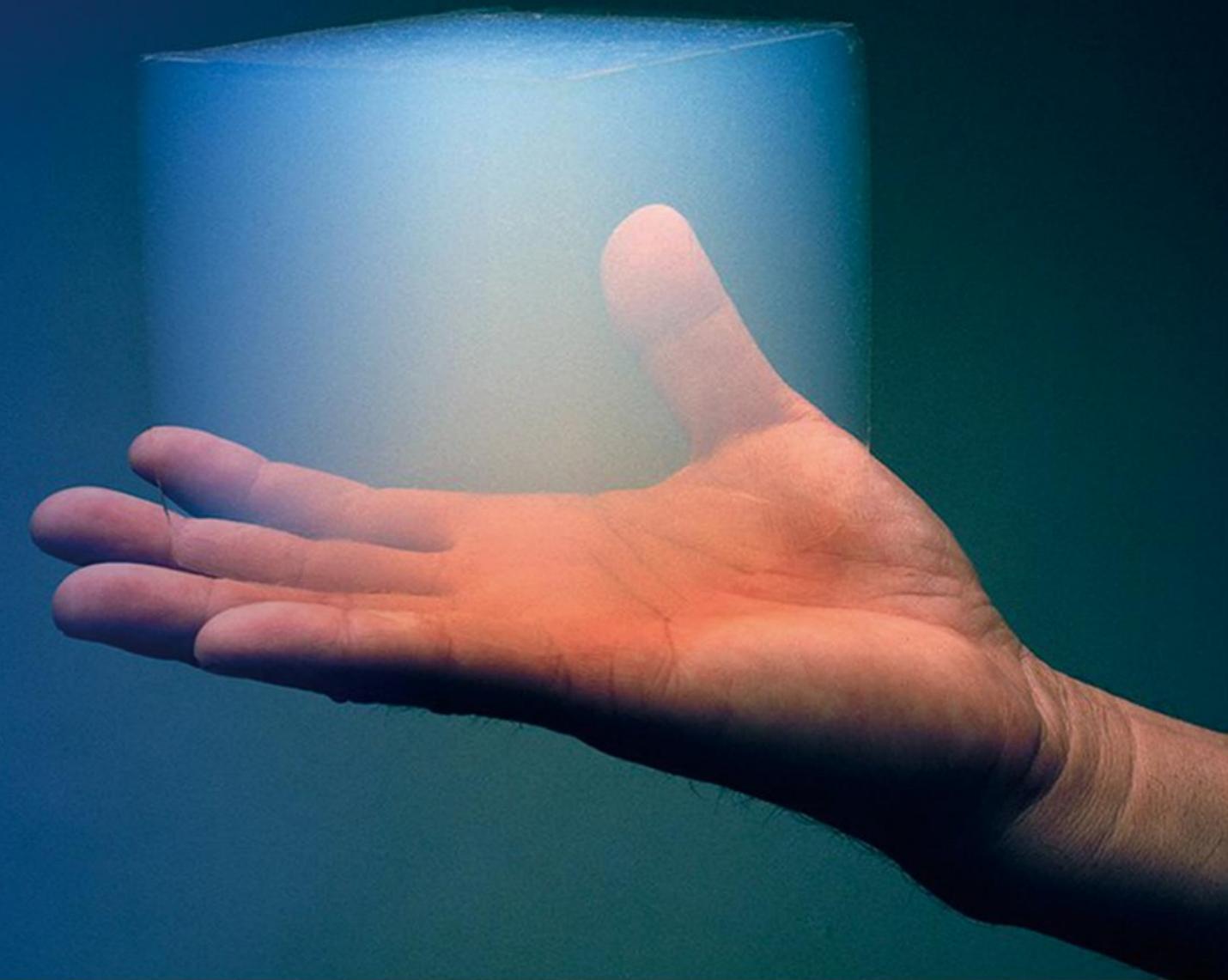
Invented in 1931 by Kistler S. S. in the United States, aerogel is also known as "blue smoke" and "frozen smoke" because of its light haze blue smoke, setting 15 Guinness Records.

Aerogel has been listed as one of the top ten hot science and technology by the international top authoritative academic journal Science and called it a multi-functional new material that can change the world.

China's Ministry of Industry and Information Technology released in December 2019 the first batch of Key New materials Application Demonstration Guidance Catalog, which clearly supports the development of aerogel materials in aerospace military industry, petrochemical industry, energy conservation and environmental protection, new energy, microelectronics and other fields.



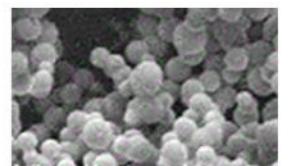
Guinness World Records certificate



#### Aerogel is the lightest known solid material

The porosity of aerogel can reach 99.8%. The interior "locks in" a lot of air. Therefore, it has excellent barrier to energy (heat, sound waves, mechanical forces), Subtractive effect. At the same time, because it has a very high specific surface area, disordered pore structure, easy to absorb other molecules, so it also has excellent adsorption properties.

- Bulk density:  $22\sim27 \text{ kg/m}^3$ ;
- Hydrophobic rate  $\geq 99\%$ ;
- $600\sim900 \text{ m}^2/\text{g}$ ;
- Porosity  $\geq 90\%$ ;
- Thermal conductivity lower than air:  $0.015\sim0.018 \text{ W/(m}\cdot\text{K)}$ ;



# MAIN PRODUCTS

## 主要产品



### Aerogel Material



AG-D Aerogel powder



AG-DP Aerogel particles



AG-S Aerogel slurry

### Architecture Field



AG-C Aerogel Insulation Midcoat



AG-DC Aerogel inorganic thermal insulation paste (dry powder)



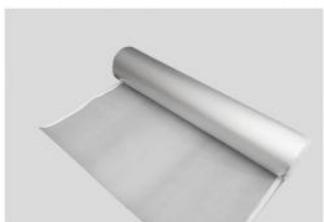
AG-P Aerogel composite non-combustible insulation board



M780 Aerogel Curtain Wall Insulation Strips



Aerogel Fireproof, Waterproof & Heat-Insulation Board



AG-FS Aerogel Waterproof & Thermal Insulation Membrane

### Industry Field



AG-F Aerogel Thermal Insulation Blanket



AG-CGT Aerogel Tank Insulation Coating



AG-C400 HT Insulation Coating



GJN Nano porous thermal insulation blanket



(Customizable) Aerogel thermal insulation tube shell



(Customizable) Removable aerogel insulation cover

### EV Battery Field



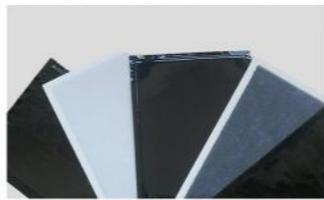
AG-ST-GF Battery Thermal Insulation Sheet



AG-ST-TX Aerogel ceramic fiber blanket



AG-ST-POF Aerogel pre-oxygenated wire blanket



Packaging-PET film



Packaging-PET film + silicone frame



Packaging-Seal coat

# Aerogel professional solutions

## - Integrated Raw Materials and Technical Output

### 气凝胶专业解决方案 - 原料 + 技术输出

A thin layer of aerogel acts as a powerful heat-shield.

When exposed to the high-temperature flame, it can safeguard the flowers beneath for several minutes.

Even as the aerogel eventually succumbs to the heat, the flowers remain intact and fragrant.



## Paint company

### We provide

- Aerogel slurry
- Technical support

### Aerogel coating



Aerogel slurry



Technical support

## Mortar company

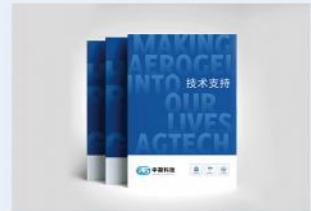
### We provide

- Aerogel particles
- Technical support

### Aerogel insulation mortar



Aerogel particles



Technical support

## Insulation integrated board company

### We provide

- Aerogel powder
- Finished insulation board

### Aerogel fireproof insulation board



Aerogel powder



Finished insulation board

## Textile Company

### We provide

- Aerogel powder
- Technical support

### Aerogel modified polyester chips



Aerogel powder



Technical support

# Aerogel Professional Solutions for EV battery Field

## 气凝胶专业解决方案 - 新能源领域



AG Tech owns products with independent intellectual property rights, holding invention patents in China and the US. Overseas, our products won't infringe the U.S. Aspen patent.



AG-Tech innovated chlorine - free and alcohol - free normal - pressure tunnel continuous production tech for inorganic silicon sources, successfully making low - cost aerogel powder free of chlorine and alcohol.



Based on aerogel powder, after surface modification, AG Tech get aerogel insulation materials. They meet CATL 0330 and 0630 material standards and BYD's requirements.

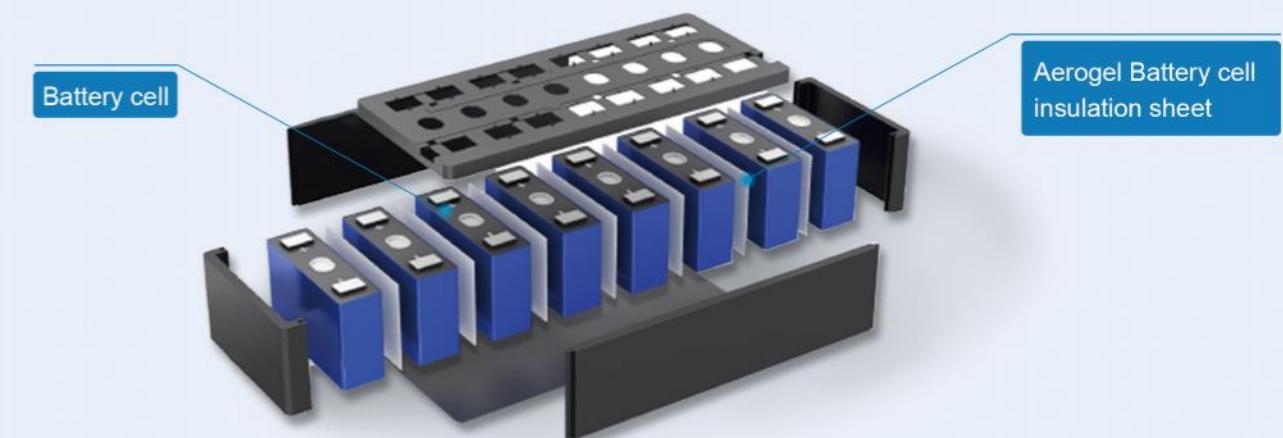


AG-Tech' s production doesn't use the sol - gel process with fiber substrates as carriers, breaking through the US ITC "337" ban and patent blockade.



Now, AG Tech EV battery insulation sheets have stably supplying to BYD and other new energy vehicle and energy storage manufacturers.

## Thermal isolation between cells



### • EV thermal runaway barrier AG-ST-GF aerogel Sheet



Battery Cell Insulation Sheet



Battery Cell Insulation Sheet



Case-DENZA D9



Case-Mercedes-Benz



Case-volvo full range of new energy vehicles



Case-Jikrypton Smart Electric Vehicle



Case-ATL lithium battery



Case-BYD energy storage box

# Aerogel Professional Solutions for EV Battery Field

## 气凝胶专业解决方案 - 新能源领域

### The Battery Pack Shell Features Fireproof and Heat-Insulating Properties



#### • AG-F Aerogel insulation blanket

With ultra-low thermal conductivity and a maximum operating temperature of 650°C, it is 75% thinner than similar products. It is Class A blanket - rated and highly hydrophobic, mainly used for fireproofing and heat insulation of battery compartments and passenger compartments in new energy buses.



Case-CRRC



Case-CRRC



Case-BYD  
Yutong New Energy Bus

#### • AG-CF Aerogel fire retardant coating

Mainly used for fire protection of new energy vehicle battery packs and components;

1. Fast surface-drying:  $\leq 2$  hours
2. Ultra - thin material: 1mm thickness can resist fire for  $\geq 1$  hour
3. Strong adhesion to metal materials like steel plates, with a bonding strength  $> 1.5 \text{ MPa}$
4. The coating is uniform and fine, expanding significantly after burning



### Energy storage Container anti-condensation



#### • Aerogel Anti-Condensation Coating

Aerogel Anti-Condensation Coating is designed for outdoor energy storage containers (operating within  $-40^{\circ}\text{C}$  to  $120^{\circ}\text{C}$ , requiring solar radiation insulation). When applied around the liquid cooling plate inside the container, it creates a barrier between the cold plate and the surrounding warm, humid air, preventing water vapor from condensing on the plate's surface and thus eliminating condensation effectively.



#### • AG-GF Aerogel Battery cell insulation sheet

Aerogel Battery Cell insulation sheets effectively reduce heat conduction between modules and improve the thermal stability of the entire energy storage system.



Case-BYD energy storage container



Case-HyperStrong Energy Storage System

# Aerogel Professional Solutions for Architecture Field

## 气凝胶专业解决方案 - 建筑领域

### Global Policy & Industry Recognition

As an advanced and high-performance material, aerogel has gained widespread recognition for its exceptional thermal insulation, fire resistance, and energy-saving properties. With increasing global emphasis on carbon neutrality and sustainable development, aerogel has been integrated into national and international energy-efficient building standards, making it a key solution for modern construction.

### Key Industry Policies & Standards:

- Sustainable Building Initiatives: Many countries have incorporated aerogel materials into their green building certification programs due to their low thermal conductivity and high durability.
- Carbon Neutrality Goals: Governments worldwide, including China, the EU, and the US, have emphasized the use of innovative insulation materials like aerogels in their energy efficiency and carbon reduction strategies.
- Stringent Fire Safety Standards: Aerogel-based insulation materials comply with international fire safety regulations, making them ideal for high-rise buildings, industrial facilities, and public infrastructure.

### Civil buildings/public buildings



#### • AG-C Aerogel Insulation Midcoat

AG-C Aerogel Insulation Midcoat is a safe, eco-friendly coating with water as solvent, free of volatile harmful compounds. It enables simple construction (only 3 procedures) for low costs, boasts strong hydrophobicity to resist moisture, mildew, stains, and self-cleaning. With an ultra-low thermal conductivity of 0.044 W/(m·K), a 2mm thickness delivers insulation equivalent to 20mm traditional material.



Case-Yangquan Communities



Case-Shenzhen-Shantou Special Cooperation Zone



Case-Shanghai Book City



#### • AG-P Aerogel composite non-combustible insulation board

Compared to traditional insulation materials, aerogel composite non-combustible insulation boards are Class A fire-resistant and have a lower thermal conductivity coefficient, significantly reducing building energy consumption and carbon emissions.



Case-Shantou Gold Coast Cultural Tourism Town



Case-a cultural tourism modular building



#### • AG-F Aerogel insulation blanket

This aerogel insulation blanket has A fire resistance rating and is hydrophobic. Its thickness is only one-third of that of traditional insulation materials, providing excellent thermal efficiency with the least weight load. It is also non-toxic and environmentally friendly.



Case-Shenzhen OCT Portofino



Case-A public building in Italy



#### • AG-DC Inorganic thermal insulation paste (dry powder)

This highly adaptable material can be used directly as thermal insulation mortar or putty, providing both thermal and acoustic insulation with a smooth leveling effect.



Case-Fujian Fitness Center

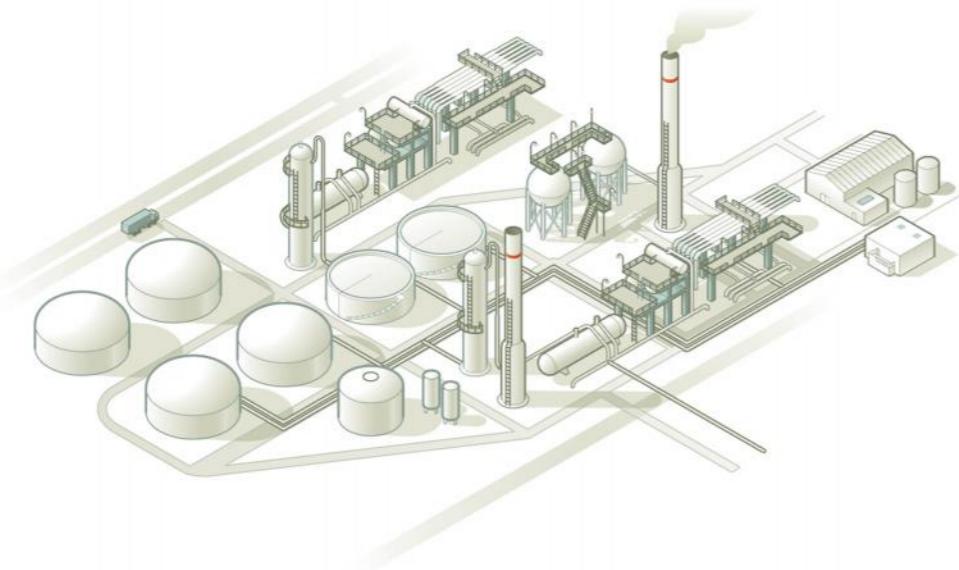


Case - A residence in Solothurn, Switzerland

# Aerogel Professional Solutions for Architecture Field

## 气凝胶专业解决方案 - 建筑领域

### Grain Warehousing Solutions



#### • AG-C Aerogel Insulation Midcoat

AG-C Aerogel Insulation Midcoat is also ideal for energy-efficient buildings like grain warehouses. With its easy application, excellent thermal insulation performance, aesthetic look, superior weather resistance, and self-cleaning feature that ensures long-term durability, it stands out as a perfect thermal insulation material.



Case-Sinograin  
Taiyuan Direct Depot



Case-Sinograin  
Taiyuan Direct Depot



Case-Sinograin Xi'an  
Direct Depot

#### • Aerogel Waterproof & Thermal Insulation Membrane

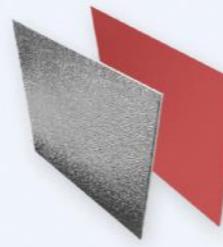
This membrane offers waterproofing, UV protection, thermal insulation, and cooling properties. It is easy to apply, has a long service life, and provides high flame resistance and heat durability. With strong adhesion and structural integrity, it effectively prevents roof leakage in both metal and concrete structures.



Case-Sinograin Xincai Directly  
Affiliated Warehouse



Case-Sinograin Changde Directly  
Affiliated Warehouse



#### • Aerogel Fireproof, Waterproof & Heat-Insulation Board

Offering top - tier Class A fire protection, this board features ultra - low thermal conductivity and excellent airtightness. The insulation layer can last over ten years, ensuring long - term performance. Both the insulation and decorative parts are highly waterproof, effectively preventing indoor moisture and mold growth. It is an ideal choice for low - temperature granaries, providing reliable thermal insulation and protection.



Case-Haikou Library



Excellent evaluation results of  
China Grain Storage Institute

### Glass curtain wall



#### • M780 Aerogel Curtain Wall Insulation Strips



Our curtain wall insulation blanket is used to caulk the metal frames of glass curtain walls, enhancing the building's overall appearance. It minimally impacts the original lighting and maintains the glass's aesthetic appeal. Significantly improving the thermal insulation performance of the glass curtain wall, it's ideal for metal frame caulking.



For caulking of metal frames  
of glass curtain walls



Case-Xianyang Airport Glass  
Curtain Wall

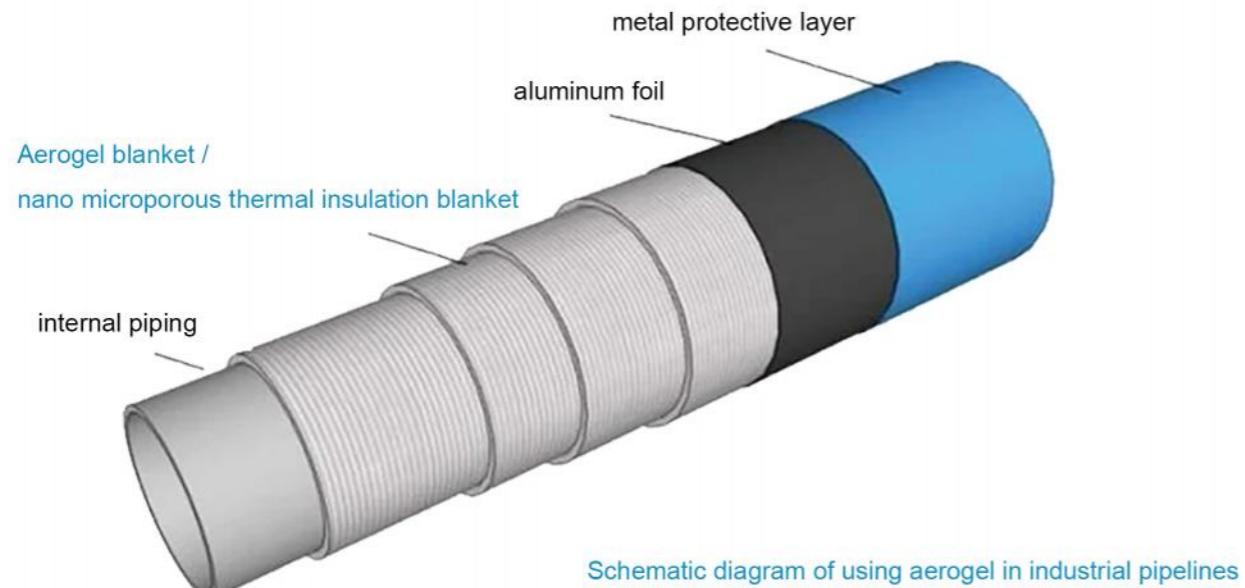


Case-Hohhot Airport Glass  
Curtain Wall

# Aerogel Professional Solutions for Industrial Field

## 气凝胶专业解决方案 - 工业领域

### Industrial pipes/high temperature pipes



#### • AG-F Aerogel Insulation Blanket

Designed for extreme temperature scenarios up to 650°C, the AG-F Aerogel Insulation Blanket redefines industrial insulation. With ultra-low thermal conductivity, and a design that's 75% thinner than comparable products, it's the ideal choice for tight spaces or high-impact environments across industrial equipment, storage tanks, buildings, and transportation sectors.



Case-PetroChina



Case-Sinopec

#### • GJN Aerogel Thermal Insulation Blanket

GJN Aerogel Thermal Insulation Blanket is ideal for small to medium pipelines under 300°C, offering superior thermal performance with ultra-low conductivity. It's more cost-effective than regular aerogel blanket, with thinner profiles, better thermal insulation and water resistance than traditional material. Flexible to install, durable, Class A non-combustible, and eco-friendly, it's a high-value solution for efficient thermal management.



Case-Wangqu power station



A Project in Fujian

### Storage tank



#### • AG-CGT Aerogel Tank Insulation Coating

2mm AG-C Aerogel coating system provides over 50% enhanced thermal insulation than common types. Compared with traditional material of equal thickness, it requires far fewer construction procedures (less than 5 steps) and simpler operations. Additionally, its outstanding hydrophobicity is a key advantage.



Case-CNOOC



Case-Sinopec



Case-Jinhui High-tech Materials Co.

# Aerogel Professional Solutions for Industrial Field

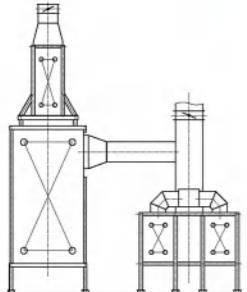
## 气凝胶专业解决方案 - 工业领域

### Heating furnace



#### • Aerogel high temperature coating

With traditional insulation cotton, water infiltration often occurs, corroding the insulation layer. Applying a 3-5mm aerogel high-temperature coating for anti-scald and thermal insulation can lower the surface temperature of the cracking furnace (a type of industrial furnace for cracking hydrocarbons) to below 60°C while withstanding temperatures up to 450°C. This meets national anti-scalding standards and reduces energy losses.



Heating furnace



Case-BASF-YPC Company



Case-A petrochemical company Case - an oil field



# APPLICATION CASE

## 应用案例



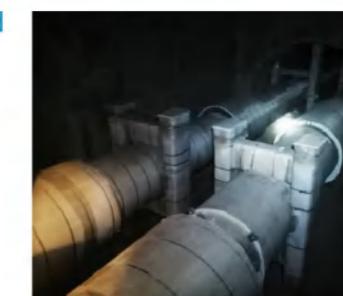
### Industry

Aerogel composite thermal insulation products are used in equipment pipelines to reduce energy consumption, save energy and provide anti-corrosion insulation.



#### PetroChina Liaohe Oilfield

Pipeline equipment is insulated with aerogel insulation blankets, helping to reduce energy consumption and heat loss.



#### Beijing Heating Group

The heating pipe network uses aerogel insulation blanket. After insulation, the surface temperature is lower than 40°C, and the service life of the insulation layer is extended several times.



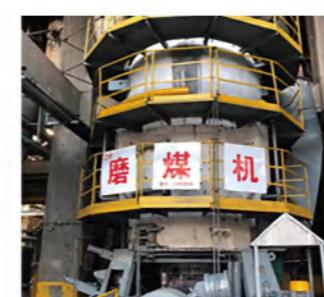
#### Lujin Wangqu Power Generation Co., Ltd.

After the insulation transformation using 110mm nano-microporous composite insulation products, the surface temperature of the insulation layer reached below 50°C.



#### A Project in Fujian

The caprolactam project uses nano-microporous thermal insulation blanket for insulation. The temperature from the inlet to the outlet of the steam pipeline is less than 20°C.



#### Luxi Chemical Coal Mill

Coal mill uses aerogel High-temperature coatings are used for thermal insulation transformation to improve construction efficiency.



#### Yangba Company

Styrene device furnace body Spraying 4~5mm aerogel high-temperature coating on the outer wall for anti-scald and heat preservation treatment can reduce the surface temperature of the furnace body to below 60°C.



#### CNOOC Boxi Oil and Gas Treatment Plant

The LPG spherical tank should be insulated with a 2mm aerogel insulation coating system. The application area is about 425 m<sup>2</sup>.



#### Sinopec Yangzi Petrochemical

Spherical tanks for light hydrocarbon media such as propane are insulated using a 2mm aerogel insulation coating system. Approximate application area: 5425 m<sup>2</sup>.

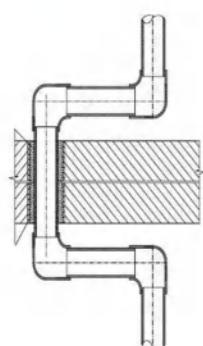
### Special equipment



#### • Aerogel high temperature coating

Our aerogel high-temperature coating can be applied via scraping or spraying, adapting well to various equipment. It offers excellent thermal insulation, withstanding temperatures up to 450°C.

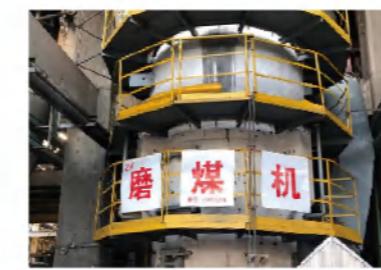
Mainly used for industrial high-temperature pipelines and equipment, it is ideal for insulating valves, flanges, and other irregularly-shaped parts as well as special-shaped equipment. It can be used for caulking or as an adhesive in thermal insulation and high-temperature zones.



Special-shaped pipes



Case-Sanmenxia



Case-Luxi Chemical Group Co., Ltd.

# APPLICATION CASE

## 应用案例



### Architecture

Aerogel composite insulation products are used in building roofs and interior and exterior walls



### EV Battery

Aerogel composite insulation products are used for safety protection of new energy power batteries



### China Construction Technology

Aerogel insulation coatings are used on the aerated concrete slab walls in the industrial park for thermal insulation and decorative protection, meeting the energy-saving requirements for new buildings.



### Yangquan 3 million square meters residential building

Aerogel thermal insulation coating is used in residential energy-saving renovation. It has exterior wall insulation and roof waterproofing insulation, and has good waterproof performance.



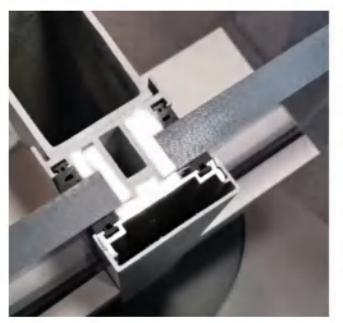
### Sinograin-Taiyuan storage tank

Using aerogel thermal insulation coating, the surface of the tank is insulated and decorated to reduce the temperature inside the tank by more than 10°C.



### Sinograin-Xincai Warehouse

The aerogel waterproof and thermal insulation membrane is used for the integrated waterproofing and thermal insulation transformation of the warehouse roof.



### Xianyang Airport - Glass Curtain Wall

The metal frame of the glass curtain wall is filled with aerogel blanket to block cold and heat bridges and increase the thermal insulation performance of the building.



### Shanghai Book City

The internal insulation of the exterior wall uses 2cm thick aerogel inorganic insulation paste. The carbon emission factor of the aerogel material is only rock wool board. 1/2—1/3. "



### a public building in italy

Our aerogel blanket is used for thermal insulation in building exterior walls to provide sound insulation, heat insulation and fire protection. Our monthly purchase volume reaches 500,000 square meters.



### Shenzhen Overseas Chinese Town Portofino

Aerogel blanket is used for sound insulation and heat insulation on the ceiling and walls of the whole house.



### CRRC

Aerogel insulation blanket is used on the roof to insulate and reduce noise of the train. Performance has been significantly improved and heat dissipation losses have been significantly reduced.



### BYD new energy bus

5mm aerogel insulation blanket is used for fire protection and heat insulation of the battery compartment and passenger compartment, which can resist the burning of lithium batteries. Flame for more than 30 minutes.



### DENZA D9

Use aerogel cell insulation sheets for thermal insulation protection of battery cells. Low thermal conductivity, fire retardant and good stability.



### BYD - Container energy storage system

Using aerogel insulation sheets for heat insulation and protection, the heat insulation and protection performance of the energy storage box is greatly improved.



### JiKrypton Smart Electric Vehicle

Use aerogel cell insulation sheets for thermal insulation protection of battery cells. Low thermal conductivity, fire retardant and good stability.



### Hypersitron energy storage system

Aerogel battery core insulation sheet can effectively reduce the transfer of heat between battery cells, thus improve the thermal stability of the energy storage system.



### ATL lithium battery

The use of aerogel cell insulation sheet products is applied to the thermal protection of battery cells, which can effectively delay or block the spread of thermal runaway of individual cells to the entire battery system.