

Promoters of the industrialization of vacuum insulation  
materials

An important setter of industry standards

# SUPER TECH COMPANY PROFILE



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01 PART

# Company Profile

Fujian Super Tech Advanced Material Co., Ltd. and  
its wholly-owned subsidiaries introduction



## ► Company Profile



SINCE  
2007

Fujian Super Tech Advanced Material Co., Ltd. was founded in 2007, is a national high-tech enterprise focusing on the development and application research of vacuum insulation materials manufacturing technology. In February 2020, it was listed on the A-share Science and Technology Innovation Board (stock code: 688398).

The company focuses on the deep R&D and industrial application of vacuum insulation technology, the product matrix covers vacuum insulation panel (VIP), ultra-fine glass fiber core material, vacuum insulating glass (VIG), high-performance ultra-high barrier film, efficient adsorption materials, precision vacuum packaging equipment and advanced product performance testing equipment, which can fully meet the diversified needs of the market.

Relying on the parent company's strong research and development strength and market insight, Supertech strategic layout across the country, has set up a number of subsidiaries, including Film Technology, VIG Technology, Supertech Cold Chain, Supertech New Building Materials, Anhui Supertech, etc., to build a wide range of application networks covering home appliance insulation, cold chain transportation, building insulation, energy thermal management and other fields. It is a few high-tech enterprises that master the whole industrial chain integration of vacuum insulation materials in China.

## ► Company philosophy

Fujian Super Tech Advanced Material Co., Ltd. has always been with the responsibility to the country, to the society, to the industry, and the customer product quality, technology has been tireless pursuit, the "safe and reliable, energy saving and environmental protection, customer satisfaction, continuous innovation" is as the way for the company to succeed.



### 1 goal

To provide customers with high quality vacuum thermal insulation products

### 18 years of deep cultivation

Over the past 18 years, we have been always focusing on R&D and production of vacuum insulation technology

### 25 countries

Products are exported to the world, covering 5 continents, 25 countries

### 30+ industries

Provides insulation solutions for more than 30 industry segments and application scenarios

### 126 patented technologies and inventions

By August 2024, the company has 126 patented technologies and inventions

### 53 million square meters

By December 2024, the sales volume of vacuum insulation panels was 53 million square meters

# 02

PART

## Product introduction

Supertech core products, innovative products,

Product introduction of the subsidiary





## Vacuum insulation panel

- high thermal resistance
- low thermal bridge
- REACH certification

$$\lambda < 1.5 \text{mW}/(\text{m} \cdot \text{K})$$

Vacuum Insulation Panel (VIP) is a new type of insulation material, which is also listed as the key product in the directory of "Strategic Emerging Industries Classification (2018)" issued by the National Bureau of Statistics.

After more than ten years of development, Supertech has mastered the core technology of vacuum insulation panel, and has grown into a "giant" in the field of vacuum insulation panel in China.

## ► Product Introduction

vacuum insulation panel



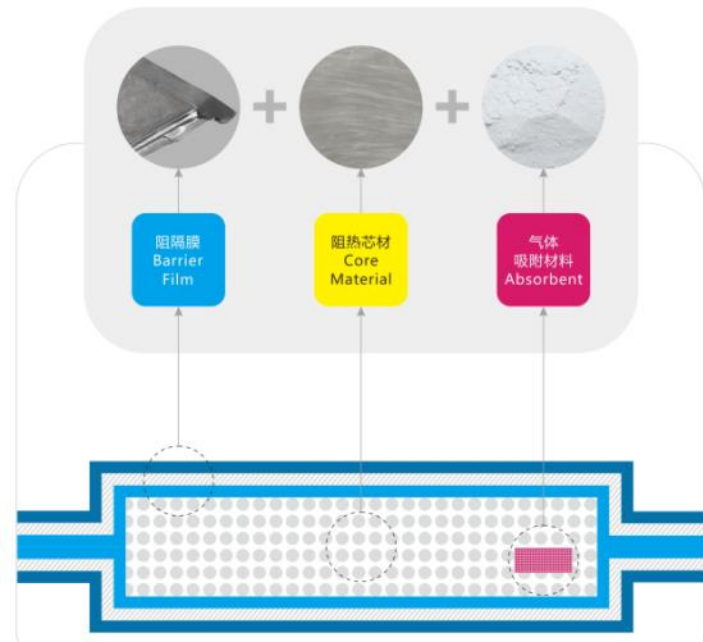
## ➤ PROVIDE SYSTEMATIC THERMAL INSULATION ENERGY SAVING SOLUTIONS

With the technology of vacuum insulation panel becoming more and more mature, from the initial application in military, aerospace and other high-end fields, gradually expanded to commercial and civil fields (such as home appliances, construction, pharmaceutical cold chain, energy thermal management, etc.), showing excellent energy saving and emission reduction effect.

Supertech not only provides high quality and reliable products, but also provides professional and customized solutions according to the different needs of customers.

## ► Product Introduction

vacuum insulation panel



Barrier core material



adsorption material  
(desiccant/getter)



barrier bag



Encapsulation



vacuum insulation panel prototype

→ folding molding

The vacuum insulation panel of Supertech is mainly composed of three parts: core material, barrier film and adsorbent.

Supertech has mastered the independent innovation technology and integrated production capacity of the whole process of "core material, barrier film, adsorbent, vacuum packaging manufacturing and performance testing", and is the promoter of the industrialization of vacuum insulation materials and an important setter of industry standards.

## ► Product Introduction

vacuum insulation panel



## Vacuum insulation panal

Continue to promote the development of vacuum insulation industry

### Product Introduction

Vacuum Insulation Panel (VIP) has the advantages of thin thickness, small size, light weight, low thermal conductivity, the thermal resistance effect is 8 to 10 times that of traditional materials, the main raw materials are environmentally friendly materials that meet the requirements of national environmental policies and circular economy.

### Application field

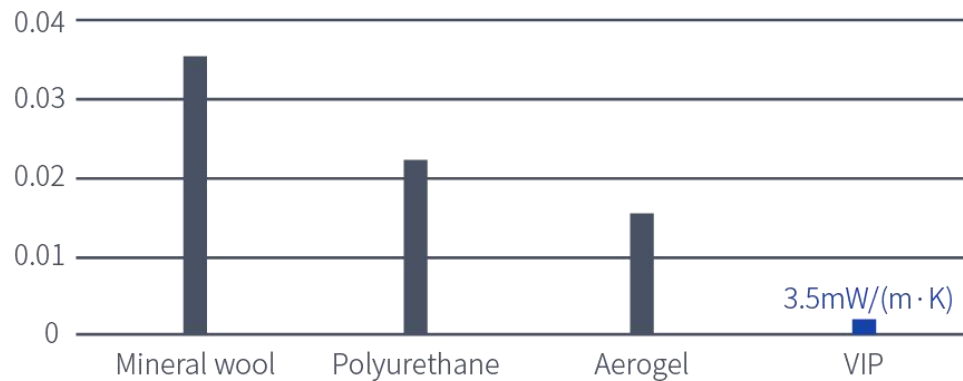
Suitable for  $-40^{\circ}\text{C} \sim 80^{\circ}\text{C}$  environment, widely used in refrigerators, freezers, buildings, fresh-keeping cabinets, incubators and ultra-low temperature refrigerators (cabinets).

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

vacuum insulation panel



### Superior thermal insulation

Thermal conductivity  
 $\lambda \leq 1.5\text{mW}(\text{m}\cdot\text{k})$



### long service life

High thermal resistance, long life. cost performance is much higher than PU



### Pass REACH certification

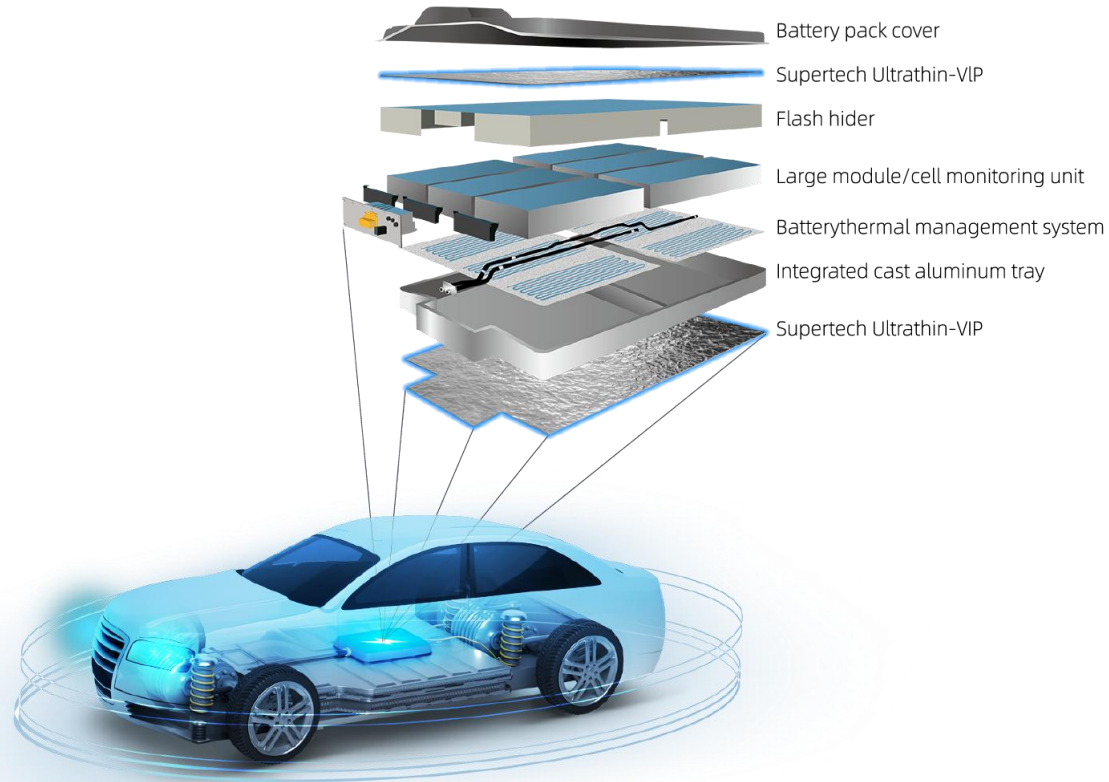
Tested for over 220 hazardous substances

### Comparison of thermal conductivity of different materials

Vacuum insulation panel uses porous material core material to reduce solid conduction, relies on high vacuum in the panel to effectively reduce air heat convection conduction, and uses composite film material to isolate heat radiation, so as to achieve excellent insulation effect.

## ► Product Introduction

Yinlin ultra-thin vacuum insulation panel



## Ultrathin-VIP

Improving the low-temperature performance of power batteries

### Product Introduction

Yinlin Ultrathin-VIP has excellent thermal insulation ability. Compared with traditional thermal insulation materials, it can use very small space to achieve several times the thermal insulation performance of traditional thermal insulation materials.

### Application field

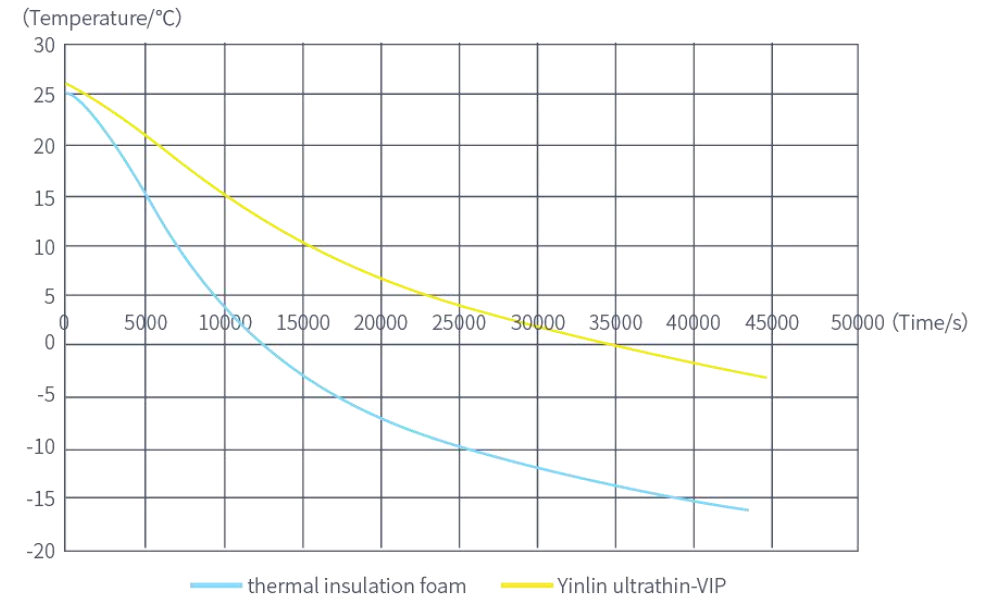
The Yinlin Ultrathin-VIP is applied to the new energy power lithium battery pack, which can greatly improve the power life under low temperature conditions.

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## Product Introduction

Yinlin ultra-thin vacuum insulation panel



## Performance parameters

|                                                  |                                                |                                         |                                                  |
|--------------------------------------------------|------------------------------------------------|-----------------------------------------|--------------------------------------------------|
| Initial thermal conductivity at room temperature | $\lambda \leq 3 \text{ mW/(m}\cdot\text{k)}$   | Thickness and size range                | H:1-5mm<br>100*100-600*1000mm                    |
| 85c, 85RH at room temperature after 1000h        | $\lambda \leq 3 \text{ mW/(m}\cdot\text{k)}$   | Copper acetate salt spray test for 240h | $\Delta \lambda < 2 \text{ mW/(m}\cdot\text{k)}$ |
| Withstand Voltage                                | Withstand Voltage<br>3800 V DC leakage<br><1mA | Temperature range                       | -40°C~90°C                                       |
| Insulation                                       | 500MΩ , 5000V Voltage                          | Density range                           | 400-550 kg/m <sup>3</sup>                        |

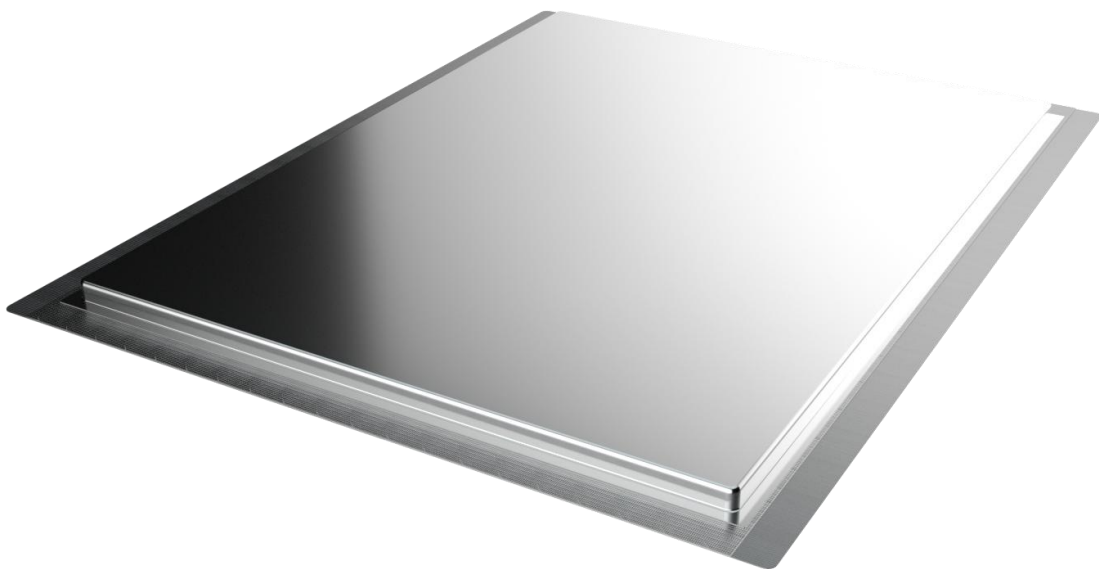
Using Yinlin Ultrathin-VIP to test until 12h, the battery pack can still meet the national standard GB/T 31486-2024 capacity attenuation requirements.

Test conditions: The initial temperature of the battery pack is 25 °C, the external temperature is -20 °C, , natural convection, conventional thermal insulation foam and 3mm thick silver Ultrathin-VIP are used, and the upper and lower parts are covered with battery packs.

With the change of time, about 3.5h, the temperature of the battery pack of the thermal insulation foam patch drops to 0 °C, , when the Yinlin Ultrathin-VIP is used, the temperature of the battery pack drops to 0 °C, after about 10h . Thermal insulation time is nearly 3 times, which greatly improves the power stability of the battery pack in low temperature environment.

## ► Product Introduction

Yujia four-sided sealing vacuum Armour panel



# Yujia four-sided sealing Vacuum Armour Panel

**As strong as armor, guarding the vacuum level**

### Product Introduction

The product, which we call VAP (Vacuum Armour Panel), is composed of hard bottom shell and high barrier film, the angle deformation and the whole process can be controlled, and the hard shell provides excellent deformation resistance and puncture resistance for the VIP panel, which greatly improves the stability of the performance of the VAP panel in harsh environments.

### Application field

It can not only provide more efficient and stable insulation solutions in refrigerators, home appliances, buildings, carriage body, cold chain and other fields, but also open a new thermal insulation journey in the liquefied natural gas field with the temperature as low as  $-200^{\circ}\text{C}$  and the industrial field with the temperature as high as  $500^{\circ}\text{C}$ .

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## Product Introduction

Yujia four-sided sealing vacuum Armour panel



**No hem, more environmentally friendly**  
Effectively avoid the hidden damage caused by the process on the product



**Aging resistance, puncture resistance**  
Material is stable, not easy to age



**Free from form constraints**  
Shape can be customized, shape is regular



**Long service life**  
More wear-resistant feet, reduce air leakage, extend service life

**New series to meet different sizes, appearance, thermal conductivity and application requirements.**

| Supertech-VAP Series | Shell code              |  | AL       | ST       | Vm       |
|----------------------|-------------------------|--|----------|----------|----------|
|                      | Core material code      |  |          |          |          |
|                      | M (TC: 2.5~3.0mW/(m·k)) |  | VAP-M-AL | VAP-M-ST | VAP-M-Vm |
|                      | W (TC: 1.5~2.0mW/(m·k)) |  | VAP-W-AL | VAP-W-ST | VAP-W-Vm |
|                      | F (TC: ≤1.5mW/(m·k))    |  | VAP-F-AL | VAP-F-ST | VAP-F-Vm |

## ► Product Introduction

Wide temperature range vacuum insulation panel



## Wide Temperature Range VIP

**Challenge-196° C-800° C temperature zone  
thermal insulation**

### Product Introduction

The product has the unique "Heat Dissipation–Thermal Insulation– Heat Dissipation" structure, using aluminum foil or stainless steel foil as film material, and basalt fiber, high silicon oxide as the core material, then after vacuuming, the product made is encapsulate by welding.

### Application field

Mainly used in new energy batteries, energy storage insulation, aerospace, LNG pipeline insulation, high temperature home appliances and equipment.

### Customizable

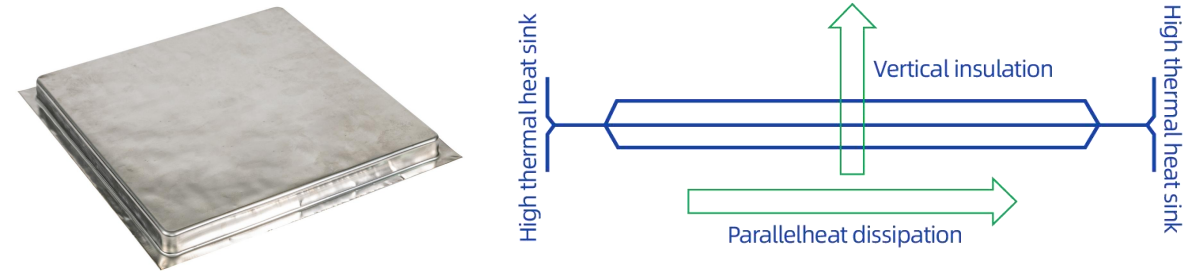
According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

Wide temperature range vacuum insulation panel



### Unique "Heat dissipation - heat insulation - heat dissipation" structure



**Anti-high and low temp**  
Thermal insulation from  
-196°C~800°C



**Class A non-combustible**  
Thermal insulation within  
800°C



**Puncture resistance**  
Greatly improve VIP  
panel stability



**High compressive strength**  
Compressive strength  
≤ 0.5MPa

## ► Product Introduction

Special vacuum insulation panel for oven



## Oven special vacuum insulation panel

**800° C high temperature resistance,  
a new level of energy saving in cooking**

### Product Introduction

Specially designed for steam oven, The stainless steel film is used to wrap the inorganic high-temperature resistant core material, and after vacuuming, it is encapsulated by welding to form an ultra-thin thermal insulation layer with insulation performance, which is not affected by the environment, effectively blocks heat conduction, convection and radiation, and blocks the influence of water, moisture and wicking, so as to achieve high efficiency and energy saving.

### Application field

Designed for the catering industry and industrial baking, it is ideal for steam ovens, high-temperature ovens, oven doors, oven internal partitions and other equipment.

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

Special vacuum insulation panel for oven



**Anti-high and low temp**  
 Thermal insulation from  
 -196℃~800℃



**Class A non-combustible**  
 Thermal insulation within  
 800℃



**Puncture resistance**  
 Greatly improve VIP  
 panel stability

## Performance parameters

| Thermal conductivity (25℃)  | Thermal conductivity (25℃)                                                           |
|-----------------------------|--------------------------------------------------------------------------------------|
| Density                     | Bulk density :250-420kg/m <sup>3</sup><br>Surface density(10mm):2-5kg/m <sup>2</sup> |
| Std. size                   | Max:500x1000mm; Min:100x100mm<br>Thickness :3-20mm                                   |
| Other sizes                 | can be customized upon request                                                       |
| Rec.operating temp          | -196 ℃~800 ℃                                                                         |
| Compressive Strength (<10%) | ≤0.5 MPa                                                                             |
| Leak rate                   | <10 <sup>-10</sup> Pa·m <sup>3</sup> /s                                              |
| Antiflaming                 | The product is Class A non-combustible                                               |

## New force for energy saving

Thermal conductivity as low as ≤2mW/m·K, which is 30% more energy-saving than traditional materials, easy to save electricity, and green and environmentally friendly!

## Slim Choice, Space Magician

3-20mm slim design, efficient use of every inch of space, make your kitchen more spacious, oven more beautiful!

## Safe escort, safe cooking

Class A non-combustible fireproof material; High temperature resistance; Protecting the shell, safe to touch and not hot hands, so that you can cook more assured!

## Long-term stability, long-term protection

The vacuum leakage rate is extremely low, < 10<sup>-10</sup>Pa.m<sup>3</sup>/s, and the expected service life reaches 50 years, which can calmly cope with the high temperature challenges of the steam oven !

## ► Product Introduction

SES vacuum insulation panel



## Supertech-SES

Designed for Class A energy efficient  
refrigerators worldwide

### Product Introduction

Vacuum insulation panels specially designed for global Class A energy efficient refrigerators, optimized fiber core material, low thermal bridge SNO nano-film and high efficiency getter material, ultra-low thermal conductivity manufacturing process, enabling ultra-low energy consumption for entire appliances.

### Application field

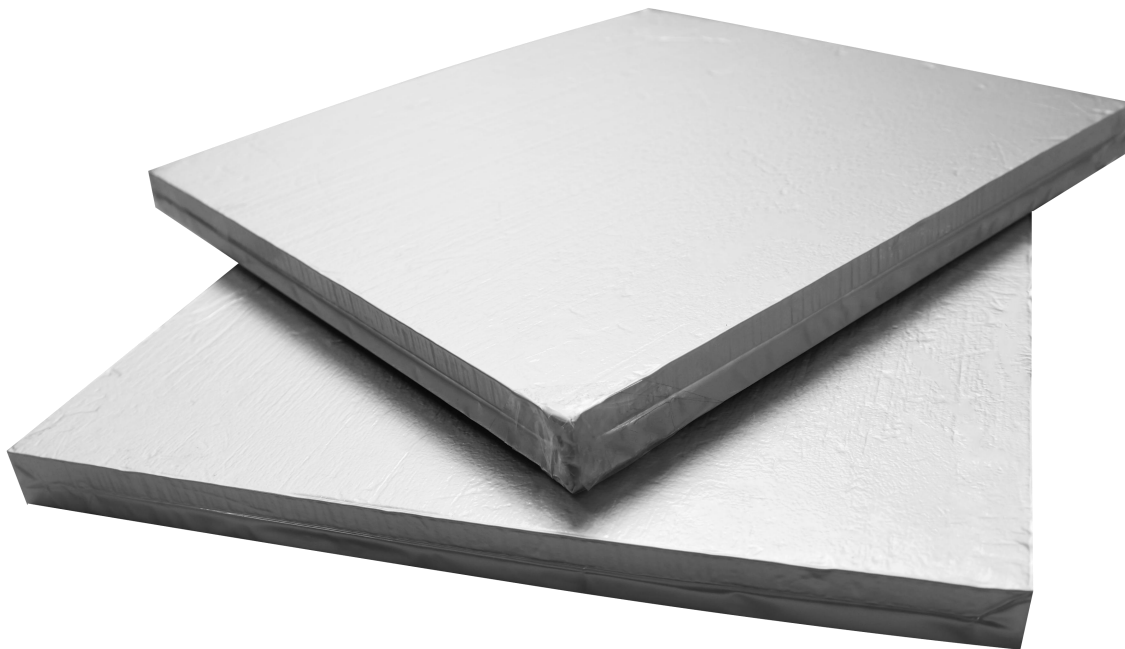
Used in Class A energy efficient refrigerators, freezers, etc.

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

Light vacuum insulation panel



# Light vacuum insulation panel

Lighter and more stable

### Product Introduction

Lightweight VIP (Supertech-L-VIP) has the characteristics of light weight, fire prevention, no burning in case of open fire, and no shrinkage and no embrittlement in low temperature environment.

### Application field

Specially designed for refrigerator insulation, cold chain logistics vehicles, mobile insulation boxes, cold storage, and building insulation.

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

Light vacuum insulation panel



**Lighter texture**  
Core material density is 1/7 of glass fiber core material



**Strong flatness**  
Flat, easy to splice



**High stability**  
The size change after puncturing is <1%



**Environmental protection safety**  
Meet the ational environmental protection requirements

### Technical performance indicators

| Items                        | Index                                                                                            | Test Standards                                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Thermal conductivity         | < 6.0 mW/(m·k)                                                                                   | GB/T 10295-2008 "Thermal insulation materials - Determination of steady-state thermal resistance and related properties - Heat flow meter method" |
| Compressive strength         | > 0.15 MPa@36kg/m <sup>3</sup> (core material)<br>> 0.29 MPa@48kg/m <sup>3</sup> (core material) | GB/T 8813-2020 "Rigid foam plastics - Determination of compression properties"                                                                    |
| Performance after puncturing | The rebound rate in thickness direction is ≤ 1%                                                  | Test method with reference to Section 6.11 of JG/T 438-2014 "Vacuum insulation panels for buildings"                                              |
|                              | Thermal conductivity < 32.5 mW/(m·k)                                                             | GB/T 10295-2008 "Thermal insulation materials - Determination of steady-state thermal resistance and related properties - Heat flow meter method" |
| Length and width             | 100-1000mm                                                                                       | Dimensional tolerance<br>±3 (100-600)<br>±5 (600-1000)                                                                                            |
| Thickness                    | 5~50mm                                                                                           | Dimensional tolerance<br>±0.5 (5 ~ 20)<br>±1.5 (20 ~ 50)                                                                                          |

## ► Product Introduction

Fumed-silicon vacuum insulation panel



# Fumed-silicon vacuum insulation panel

**stable performance and lighter texture**

### Product Introduction

Utilizing vacuum insulation technology with inorganic nanoscale microporous thermal insulation materials, loose porous, light texture, good thermal insulation performance, high strength, small thermal conductivity, combustion performance is class A, the performance indicators meet the current national building energy conservation design standards and fire prevention code requirements, can be widely used in the field of building external wall insulation.

### Application field

Specially designed for refrigerator insulation, cold chain logistics vehicles, mobile insulation boxes, cold storage, and building insulation

### Customizable

According to the actual requirements, full-size and multi-form customization can be performed to meet the application requirements of different scenarios.

## ► Product Introduction

Fumed-silicon vacuum insulation panel



**Excellent thermal insulation**  
Thermal conductivity  $\lambda \leq 1.5 \text{ mW/(m}\cdot\text{k)}$



**Long service life**  
high thermal resistance, long life, cost performance is much higher than PU



**Pass REACH certification**  
Tested for over 220 hazardous substances

## Technical performance indicators

|                 |                               |
|-----------------|-------------------------------|
| Core materials  | fumed silica                  |
| Film            | High performance barrier film |
| Color           | Silver                        |
| Temp.range      | -80°C to 85°C                 |
| Std.size        | Custom size                   |
| Maxs size       | 800x1200mm                    |
| Thickness range | 10mm-45mm                     |

## ► Product Introduction

Core material



## Core material

**Crafting Quality panels with the 'Core' in Mind**

### Product Introduction

As the porous medium insulation material of vacuum insulation panel, The core material has good thermal insulation performance, and its main function is to use its own connected pore channel to form an artificial vacuum insulation space, so that the vacuum insulation panel has the low thermal conductivity.

At present, the core layer materials used by Supertech for vacuum insulation panel mainly include flame cotton, long glass fiber filament, centrifugal cotton and so on.

According to the customer's different thermal conductivity and performance requirements, Using the best process (wet process/dry carding/air molding/hot pressing) to form the core material.

### Application field

It can be applied to the core layer material of vacuum insulation panel and other thermal insulation fields.

## ► Product Introduction

Core material



As the vacuum insulation panel skeleton, Two different glass fiber core materials that mainly affect its initial thermal conductivity, the specific differences are as follows:

| Material class                       | Glass fiber chopped strands<br>(alkali free chopped fiber) | Ultrafine glass fiber<br>(Flame cotton/ Centrifugal cotton) |
|--------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| Main ingredients<br>/characteristics | silicate<br>Very low alkali content,<br>good strength      | silicate<br>soft                                            |
| Production technology                | Wire drawing process                                       | Flame blowing method<br>Centrifugal process                 |
| Average diameter                     | Generally > 5μm<br>Uniform diameter distribution           | Generally 0.1 ~ 6μm                                         |
| Appearance                           | Filamentary                                                | The diameter dispersion is large                            |

The performance comparison of vacuum insulation panels made of two different glass fiber core materials is as follows:

| Core material                                          | Advantageous features                                                                                                                                             |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Glass fiber chopped strands<br>vacuum insulation panel | 1. better insulation performance<br>2. environmentally friendly, in line with the EU REACH certification standards and non-carcinogenic human safety requirements |
| Ultrafine glass fiber vacuum<br>insulation panel       | 1. the process is more mature<br>2. because the aperture is smaller, the vacuum sensitivity is low, so the requirements for adsorbents and barrier films are low  |

## ► Product Introduction

Barrier film



## Barrier film

**refresh refrigerator low energy consumption,  
large space new era**

### Product Introduction

Through cooperation with major scientific research institutes and university & manufacturers in the industry, Subsidiary "Film Technology" has developed excellent products such as high barrier aluminum-plastic composite film, aluminum-free composite film and SN series nano barrier film.

The company has introduced more than ten advanced production lines at home and abroad, and has passed the international advanced management standard certification, becoming the industry's leading provider of high barrier packaging solutions, and customizing efficient high barrier film packaging solutions for customers.

### Application field

Can be used for refrigerator VIP panel, food vacuum packaging, energy-saving building materials outsourcing, industrial special packaging, etc.

## ► Product Introduction

Vacuum incubator



## Vacuum incubator

thermal insulation, stable performance

### Product Introduction

The subsidiary "Supertech Cold Chain" mainly provides various kinds of insulated boxes, which are passive temperature control boxes based on heat transfer science and material science, and are composed of vacuum insulation panel and traditional insulated box materials PU, EPS, EPP, etc. Combined with phase change cold storage agent, it can achieve a variety of temperature zone, a variety of aging, a variety of specifications of different combinations.

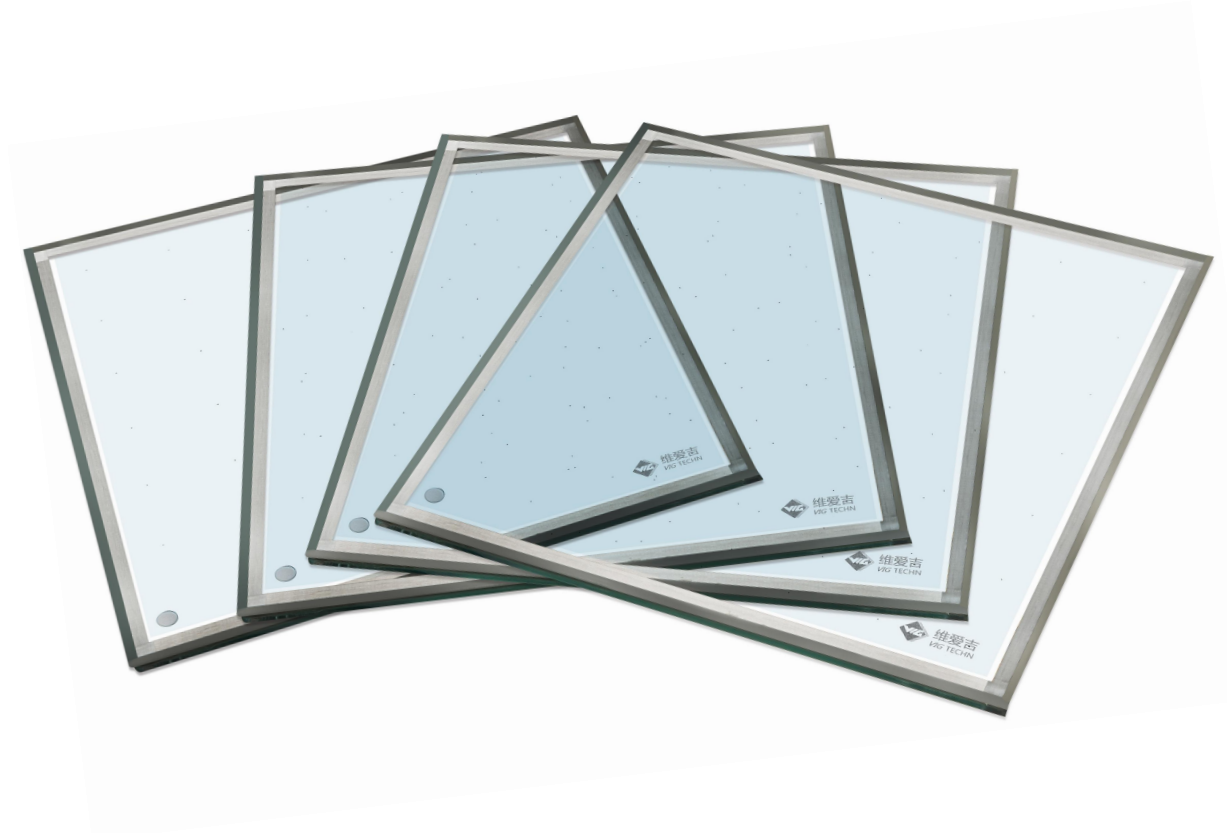
According to the relevant regulations of domestic and foreign medical transportation, the thermal insulation box can be combined with phase change cold storage materials to meet the requirements of customers for different thermal insulation time.

### Application field

Can serve in medicine, fresh cold chain transportation and other fields.

## ► Product Introduction

All fully tempered vacuum insulating glass



## All fully tempered vacuum insulating glass

Thermal insulation, sound insulation, and noise reduction

### Product Introduction

The vacuum glass of the subsidiary "VIG Technology" adopts "tempered safety glass + alloy getter + lead-free alloy flexible solder + low thermal conductivity support microbeads + outer high-quality structural adhesive". In the high vacuum environment, welding materials are used around the glass for permanent sealing to obtain high vacuum performance double-channel sealed vacuum glass without suction port.

### Application field

Can be used in residential, office, commercial square and other external wall glass, glass greenhouse, photovoltaic integration, intelligent refrigerator, refrigerator, high-end wine cabinet, display cabinet, car glass, high-speed rail bullet train glass, station airport waiting area, corridor glass, etc.

### Customizable

Can be customized according to actual needs.

## ► Product Introduction

Reinforced Polyurethane Door



# Reinforced Polyurethane Door

Designed for cold storage

### Product Introduction

Compared with aluminum alloy doors, VIG reinforced polyurethane doors have better thermal insulation and sound insulation effects, while being lighter and more cost-effective.

Compared with plastic steel doors, VIG reinforced polyurethane doors do not contain plasticizers, are more environmentally friendly, and have better strength and durability.

### Customizable

Can be customized according to actual needs.

## ► Product Introduction

### Reinforced Polyurethane Door



**Light weight and high strength**  
 With light weight, high strength characteristics, easy to install and use



**Heat preservation and consumption reduction**  
 Effectively reduce the temperature difference between inside and outside, improve energy efficiency



**Easy to install**  
 Adapt to different freezer styles and space needs



**Good durability**  
 Not susceptible to moisture, deformation and aging

### Factory laboratory test data

| Experimental data of insulating glass door body of Model A freezer |        |                         |        |       |
|--------------------------------------------------------------------|--------|-------------------------|--------|-------|
| Environment temp.                                                  |        | 35/75%                  |        |       |
| Dew point temp.                                                    |        | 29.9°C                  |        |       |
| Cabinet opening and stopping temp.                                 |        | -19.5 ~ -23.4°C         |        |       |
|                                                                    |        | Left                    | Middle | Right |
| Glass door surface temperature: (electric heating)                 | Up     | 37.7                    | 37.9   | 39.3  |
|                                                                    | Middle | 36.2                    | 36.5   | 36    |
|                                                                    | Down   | 35.4                    | 35.5   | 35.4  |
| Transformer output                                                 |        | 55V                     |        |       |
| Glass door resistance                                              |        | 25Ω                     |        |       |
| Door heating power                                                 |        | 126W, 84W for the glass |        |       |

| Experimental data of vacuum glass door body of Model B freezer |        |                 |        |       |
|----------------------------------------------------------------|--------|-----------------|--------|-------|
| Environment temp.                                              |        | 35/75%          |        |       |
| Dew point temp.                                                |        | 29.9°C          |        |       |
| Cabinet opening and stopping temp.                             |        | -20.8 ~ -23.3°C |        |       |
|                                                                |        | Left            | Middle | Right |
| Glass door surface temperature                                 | Up     | 31.8            | 31.3   | 31.1  |
|                                                                | Middle | 31.6            | 31     | 30.9  |
|                                                                | Down   | 32.4            | 30.9   | 31.5  |
| Transformer output                                             |        | 56V             |        |       |
| Glass door resistance                                          |        | 82.2Ω           |        |       |
| Door heating power                                             |        | 38.2W           |        |       |

### OEM test data

| Door type                  | Three glass two cavity hollow glass door body | Vacuum glass door body | Difference  |
|----------------------------|-----------------------------------------------|------------------------|-------------|
| Power consumption (Kw/day) | 8.74                                          | 5.81                   | 2.94(33.5%) |

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materials

An important setter of industry standards

THANK YOU FOR  
WATCHING



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