

SUPERTECH-L-VIP



赛特新材
SUPER TECH

About Enterprise

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

Fujian Super Tech has been constantly exploring the field of vacuum insulation, continuously upgrading the downstream applications of vacuum insulation panels (refrigerators, freezers and other home appliances), vacuum insulation technology applications (cold chain logistics such as cold storage, refrigerated trucks, and insulated boxes) and production equipment, quickly responding to customers' personalized needs, and providing customers with energy-saving and environmentally friendly vacuum insulation products and efficient insulation solutions.

Deep cultivation industry for many years,
with technology, quality,
equipment and other advantages.
Fujian Super Tech has won a good reputation
in the field of vacuum insulation panels and
maintained a leading position in the industry.



China Household Appliances Science and Technology Progress Award



AWE BEST COMPONENT AWARD



REACH report by SGS



RoHS report by SGS



National Key New Products



National High Tech Enterprise





Lighter weight
the core material density is
1/7 that of glass fiber



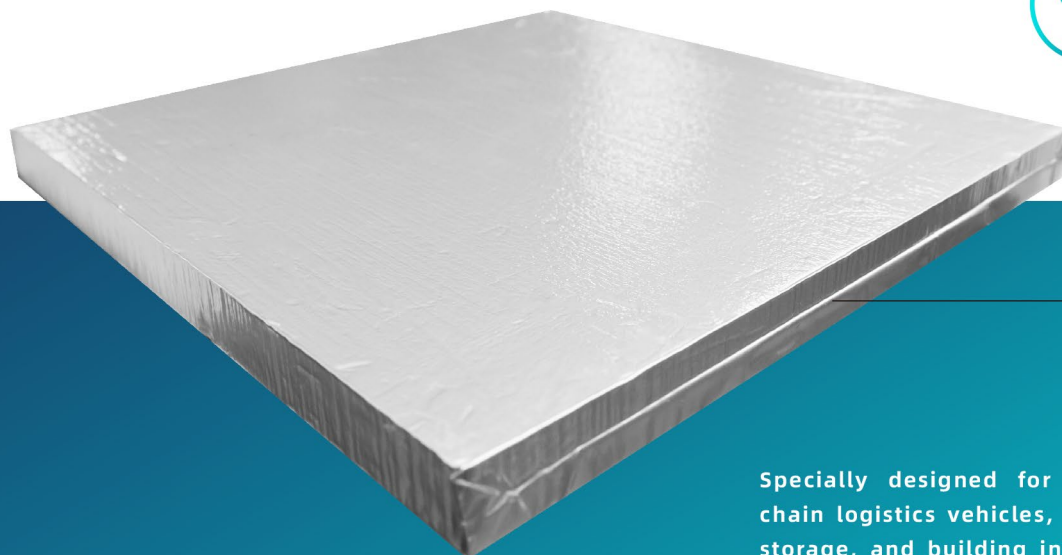
High stability
dimensional change is < 1%
after puncturing



High flatness
smooth, easy to splice



Environmental protection safety
Comply with national environmental
protection requirements



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

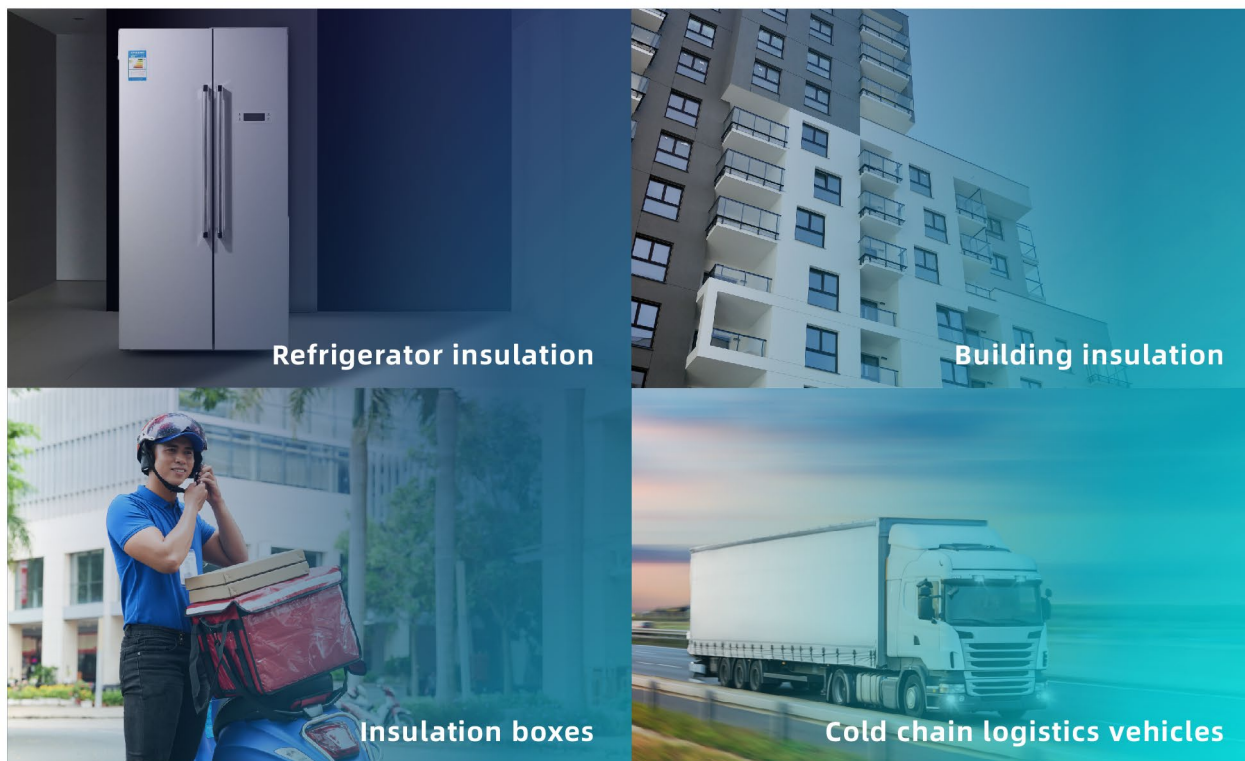
Supertech-L-VIP

Lighter and more stable




Technical Performance Indicators

Items	Indicators	Test Standards
λ	$< 6.0\text{mW}/(\text{m}\cdot\text{k})$	GB/T 10295-2008 "Thermal insulation materials - Determination of steady-state thermal resistance and related properties - Heat flow meter method"
Compressive strength	$> 0.15\text{MPa}@36\text{kg}/\text{m}^3(\text{core})$ $> 0.29\text{MPa}@48\text{kg}/\text{m}^3(\text{core})$	GB/T 8813-2020 "Rigid foam plastics - Determination of compression properties"
Performance after puncturing	The rebound rate in the thickness direction is $\leq 1\%$	Test method with reference to Section 6.11 of JG/T 438-2014 "Vacuum insulation panels for buildings"
	$\lambda < 32.5\text{mW}/(\text{m}\cdot\text{k})$	GB/T 10295-2008 "Thermal insulation materials - Determination of steady-state thermal resistance and related properties - Heat flow meter method"
length、width	100~1000mm	Size Tolerance ± 3 (100~600) ± 5 (600~1000)
Thickness	5~50mm	Size Tolerance ± 0.5 (5~20) ± 1.5 (20~50)

Application scenarios



Performance comparison and characteristics of three VIP products with different core materials

		supertech-L-VIP	FS-VIP	GF-VIP
Appearance	Example of regularity			
		Higher flatness	High flatness	Core materials are easily misaligned
Density (kg/m ³)	VIP overall density	85	180	360
	Core material density inside VIP	45	160	330
λ mW/(m·k)	Central area	< 6.0	≤4.5	≤2.2
Dimensional stability	Expansion rate after puncturing	0.5%	7%	40% (High temperature forming) 90% (Medium and low temperature forming)

The promoter of the industrialization of vacuum insulation materials

The important setter of industry standards

Technology and invention patents

126
items



(Only display some patent certificates)

4
items

Vacuum insulation panel
(GB/T 37608-2019) National standard

2
items

Vacuum insulation panels for household appliances
(QB/T4682-2014) Industry Standard

3
items

Vacuum insulation panels for buildings
(JG/T438-2014) Industry Standard

21
items

Industry association honors and awards recognition

23
items

National and provincial government awards



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