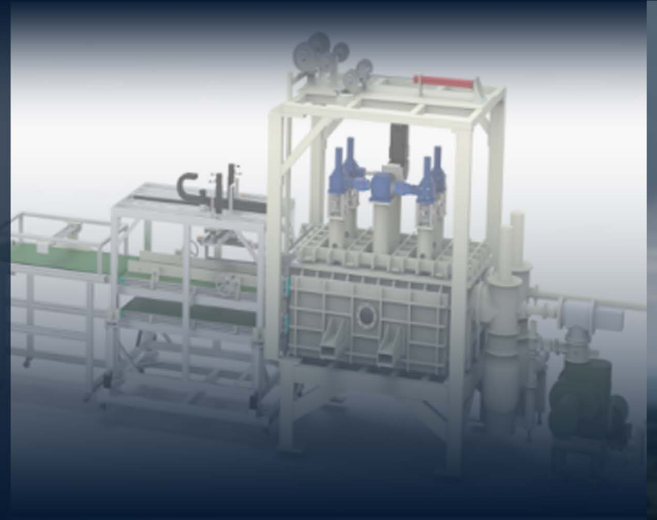
New Process

More thorough exhaust, orders of magnitude optimized leakage rate, more regular appearance, and higher degree of automation bring great improvement in reliability.



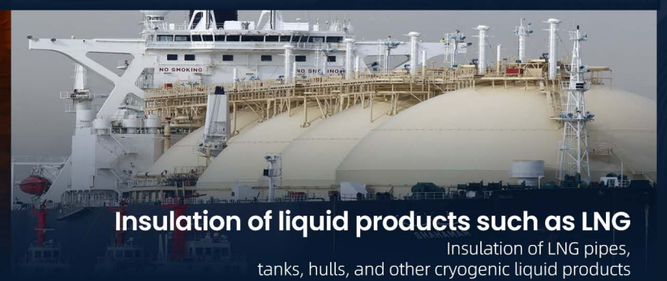
Multi-field Applications

Supertech-VAP delivers high-efficiency thermal insulation solutions across household, construction, and transportation sectors, while extending its application to extreme environments (-200℃ cryogenic LNG storage to 500℃ industrial processes).

Refrigerators, freezers, etc
Household refrigerators, cryogenic freezers, vending machines, etc

Building insulation
Insulation of gymnasiums, theaters, commercial buildings, walls and structures

Industrial insulation
Industrial kilns, steamers, ovens, etc



Insulation of liquid products such as LNG
Insulation of LNG pipes, tanks, hulls, and other cryogenic liquid products

☑ Comply with ROHS and REACH

SUPERTECH -VAP

Completely solving the air leakage and expansion of traditional bag-type VIP

Supertech-VAP (Vacuum Armour Panel) ,
Disruptive innovation , high barrier , aging resistance , and puncture resistance performance to the extreme

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Company address: No. 1 DuHang East Road, Guankou Town, Jimei District, Xiamen City, Fujian Province

Scan for more updates

赛特新材 SUPER TECH

Choose Supertech-VAP to start the road to high efficiency and energy reduction

Supertech -VAP

Supertech has innovated and developed a new VIP product structure - Shell type four-sided sealing vacuum insulation Panel (Vacuum Armour Panel,VAP).

The product is composed of hard bottom shell and high barrier film, the hard bottom shell is formed by hot stamping, the angle deformation and the whole process can be controlled, the new process edge banding is formed on one side of the product, the shape is regular and flat, and the slotted holes can be prefabricated and the size can be customized according to the VIP core material, and there is no dotted edge.

No folds, more fidelity

Effectively avoid the hidden damage caused to the product in the process, and fundamentally solve the problems of traditional bag VIP damage, air leakage and hemming.

Puncture resistant

The shell has excellent impact resistance, can effectively resist external impact, the material is stable, not easy to age, to ensure long-term use.

Morphology-unrestricted

The shape can be customized, the appearance is regular, and the thermal bridge of product assembly is reduced.

Stability meets excellence

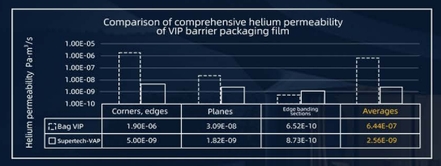
The new process exhausts thoroughly, has high vacuum degree, and More significant energy savings.

Long service life

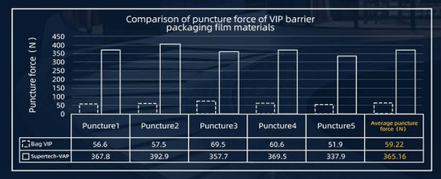
The corners are more wear-resistant, reducing air leakage and extending service life.

Leakage rate subversion

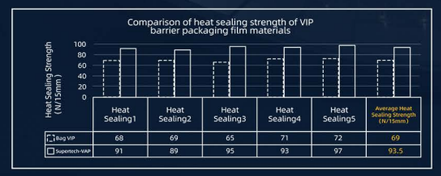
Supertech-VAP utilizes pre-molded barrier shells with corner deformation control, achieving leakage rates <3×10^{-9} Pa·m^3/s to enhance product reliability and lifespan.



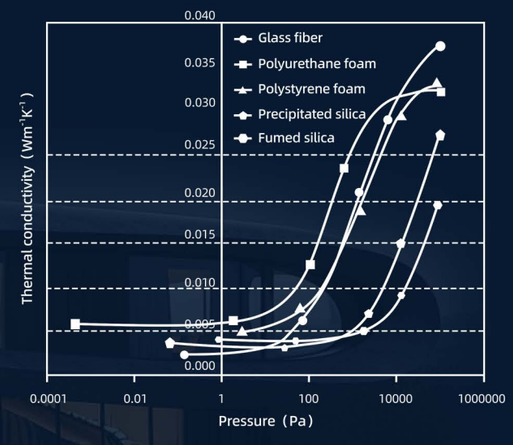
	Corners, edges	Planes	Edge banding (Bottom)	Averages
Bag VIP	1.90E-06	3.09E-08	6.52E-10	6.44E-07
Supertech-VAP	5.00E-09	1.82E-09	8.73E-10	2.56E-09



	Puncture1	Puncture2	Puncture3	Puncture4	Puncture5	Average puncture force (N)
Bag VIP	56.6	57.5	69.5	60.6	51.9	59.22
Supertech-VAP	367.8	392.9	357.7	369.5	337.9	365.16



	Heat Sealing1	Heat Sealing2	Heat Sealing3	Heat Sealing4	Heat Sealing5	Average Heat Sealing Strength (N/15mm)
Bag VIP	68	69	65	71	72	69
Supertech-VAP	91	89	95	93	97	93.5



Puncture resistance exceeds 6.2 times and heat sealing strength surpasses 1.4 times traditional VIP packaging

The introduction of APET material has improved the impact resistance, tear resistance and heat resistance of the material, so that Supertech-VAP has excellent performance in various tests and has a longer service life. At the same time, it allows greater freedom in its production and use without air leakage.

Multi-fit series

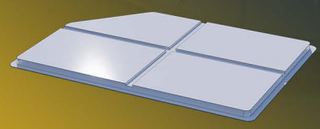
Any size, any form, any thermal need

	Core material code / Shell code		Aluminum -laminated films (AL)	Stainless steel foils (ST)	Aluminized films (Vm)
Supertech-VAP	M	Mineral wool Thermal Conductivity: 2.5 ~ 3.0 mW/m·K	VAP-M·AL	VAP-M·ST	VAP-M·Vm
	W	Centrifugal glass Wool Thermal Conductivity: 1.5 ~ 2.0 mW/m·K	VAP-W·AL	VAP-W·ST	VAP-W·Vm
	F	Glass fiber Thermal Conductivity: ≤ 1.5 mW/m·K	VAP-F·AL	VAP-F·ST	VAP-F·Vm

Special-shaped with mounting holes

Custom chamfer & Relief grooves

Slotted with thickened chamfering corners



Round with mounting holes