Aerogel Powder / Aerogel Phenolic Foam Board

Co-existing with the environment through High Energy-Efficient Motors

亞比斯

AEROGEL BUILDING INSULATION SERVICE CO.

Aerogel Building Insulation Service

About Aerogel

Aerogel Building Insulation Service Co. was established in 2018, with the main focus on technical modification of aerogel powder, in which it already has excellent heat insulation and lightweight properties. In addition, it also conducts research develop on relevant aerogel applied products. Currently, Aerogel has created aerogel phenolic foam board that is used as a fireproof filling material to raise the fire resistant level, often used in fire doors or fireproof rolling doors. Additionally, it could also be applied onto the interior or partition walls of buildings or rooftops of factories, prolong the heat insulation and heat preservation effect, achieving eco-friendly and environmental protection goals.

Aerogel's vision is to continue the research development of industries, government and academia, combining professional technologies and practical experiences, maintaining the cross sector integration. The firm will implement environmental protection and green energy practices for sustainable development, and move towards the direction of promoting and expanding its overseas markets globally.

Tel / +886-6-230-0440
Address / 3F.-2, No. 1, Ln. 436, Zhongshan S. Rd.,
Yongkang Dist., Tainan 710031
aerogelbuilding@gmail.com

World Society of Sustainable Energy Technologies (WSSET) Innovation Awards
Sustainable Materials Best Product Award

Product Introduction

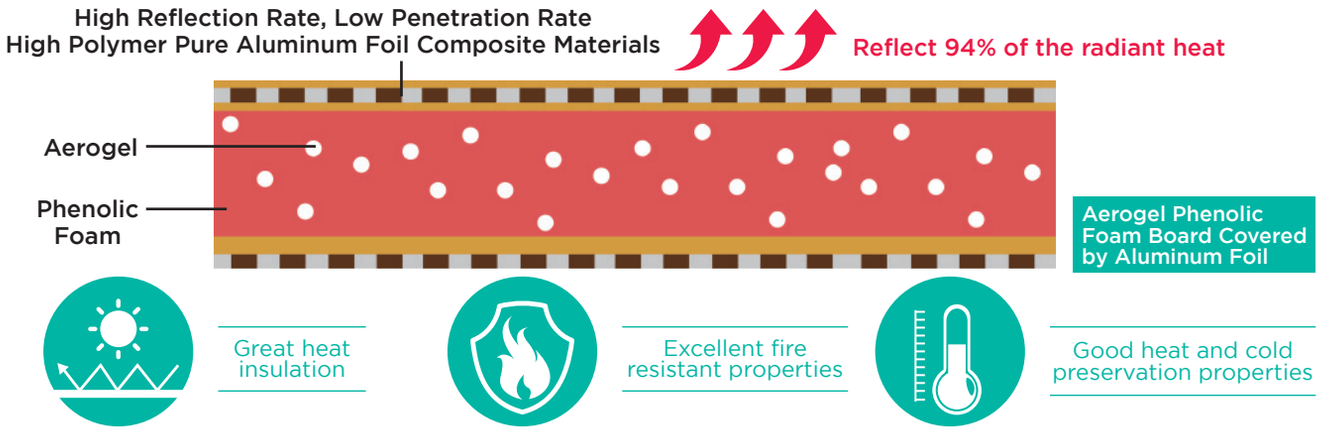
Aerogel Powder

The aerogel powder is mainly silica, white powder in appearance with fine and homogeneous particle size. Aerogel has a three dimensional network of modified silica molecules and nano-sized pores. Aerogel improves the aerogel powder manufacturing technology, shortens production process duration, and overall raises the manufacturing efficiency. Due to the aerogel powder's properties of high surface area, low density, low thermal conduction, Aerogel has applied it onto heat insulation coating, and fire retardant materials, improving the effects of heat insulation, heat preservation and flame resistant.


Aerogel Powder

Aerogel Phenolic Foam Board

Aerogel adds aerogel powder into the phenolic foam board manufacturing process in order to create aerogel phenolic foam board, which could optimize the performance when applied onto energy saving buildings. The aerogel phenolic foam board not only could raise the heat insulation effects, and significantly enhance the fire resistant properties. Moreover, phenolic foam board that is wrapped in aluminum foil could effectively reflect the sun radiant rays, and further increase its heat insulation effect. This could be applied onto the outer layer of buildings, fire doors and industrial pipelines for their heat insulation properties.



Integrated Services: Energy Saving Container

Aerogel not only produces aerogel phenolic foam board, but also provides heat insulation building design integrated services. The firm could integrate numerous heat insulation goods from other companies, such as heat insulation blankets, energy saving laminated glass, solar PV panels...etc., which could then be applied within the energy saving container building sector. For example, Aerogel could provide Energy Saving Container, by salvaging and utilizing discarded containers for reuse purposes.

Aerogel uses aerogel relevant materials, heat insulation blankets and energy saving laminated glass to cover the exterior of the Energy Saving Container to prevent the radiant heat from entering. In addition, the firm installs solar PV panels on the rooftop in order to provide electricity to the household. It becomes a low energy consumption building that is close to provide self-sufficient electricity, creating energy while simultaneously reducing the power consumption, thus promoting and putting into practice the concept of zero waste and sustainable environment.

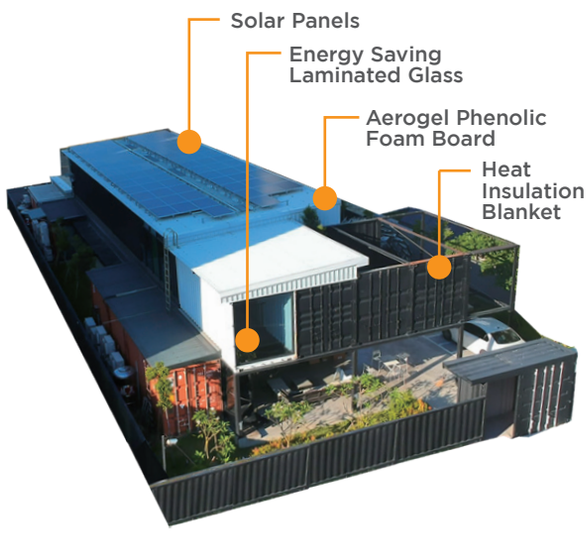


Photo of Energy Saving Container