

LY-AIS500

It is an ultra-thin new nanocomposite material, which is made of fiber felt and silica aerogel composite and the outer surface is coated with anti-powder products, and the thermal conductivity at room temperature is $\leq 0.025\text{W}/(\text{m}\cdot\text{K})$. At the same time, it has the characteristics of no powder loss and good insulation. The product can be applied to the protection between the battery cells in the battery pack of new energy vehicles, and plays the role of fire and heat insulation when the battery burns and explodes.

Features

- Low thermal conductivity
- Excellent insulating properties
- UL94-V0 flammability rating
- Environmentally friendly and reliable

Specifications

PROPERTIES	DATA	TEST METHOD
Color	White	Visual
Density, kg/m^3	200~450	GB/T 34336-2017
Thermal Conductivity @25°C, $\text{W}/(\text{m}\cdot\text{K})$	≤ 0.021	GB/T 10295-2008
Thermal Conductivity @300°C, $\text{W}/(\text{m}\cdot\text{K})$	≤ 0.036	GB/T 10294-2008
Operating temperature range, °C	-40 to 100	/
Temperature Resistance Test	$\geq 10\text{min}$	800°C(Hot Side Temp.)
Flammability Rating	V-0	UL94
Dimensions(L, W) variation at pressure 2MPa	$\leq 1\%$	/
Insulation resistance	$\geq 500\text{M}\Omega$	1000V DC 60s
Withstand Voltage	Leakage current< 1mA	3000V DC 60s

Application

It can be used for thermal runaway fire insulation of battery cells in new energy vehicle battery packs, and plays a dual role in fire and heat insulation when the battery burns and explodes, so as to gain more escape time for passengers.

Regulation

RoHS Compliant, Halogen Free and PFAS- Free

Handling, Storage and Shelf Life

In the process of handling, it must be handled with care, strictly prevent the surface from being bruised and affect the surface appearance requirements; in the process of transportation, it is necessary to do a good job of bump protection to prevent the invasion of rain and snow; the products should be stored under the conditions of dry, ventilated, rainproof, away from fire, heat and chemical solvents. It should be stacked separately according to varieties and specifications to avoid heavy pressure. The warehouse temperature is -5~30°C, and the humidity is <80%. Under the above standard storage conditions, the recommended storage period is 12 months.

DISCLAIMER:

Many factors beyond Longyoung's control and uniquely within user's knowledge and control can affect the use and performance of a longyoung product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application.

