

# Insulation box energy storage box

What is the insulation box of cold storage?

The insulation box of cold storage is made of a material with low heat insulation or low thermal conductivity, and a cold accumulator is placed inside to keep the temperature inside the box so that the cold chain transportation of the food is conveniently completed.

Which insulation box is suitable for long-distance transportation?

The results show that the EPS insulation box is suitable for short-distance transportation of no more than 24 h, the insulation box of cold storage is suitable for medium- and short-distance transportation of no more than 48 h, and the 5 °C cold chain transportation is suitable for long distance or special fruit and vegetable transportation.

What is a multi-temperature zone insulation box for cold storage?

Combined with vacuum insulation technology, a multi-temperature zone insulation box for cold storage was constructed. A three-dimensional unsteady model was established, and the temperature and velocity fields in different parts of the box were analyzed, especially the melting process of PCMs.

How can a multi-temperature insulation box improve the economy of logistics?

To improve the economy of logistics and ensure the quality of fruits and vegetables in refrigerated transportation, a multi-temperature insulation box with different phase change materials (PCMs) was designed for cold storage in this work.

What is a cold storage box?

As a new and efficient cold chain logistics technology equipment, the cold storage box is mainly composed of cold storage units and an insulation box, as is shown in Fig. 14.

Which insulating material is used to insulate a box?

The distribution of 20 % PCM at the top and 80 % PCM on the inner wall in the box was applied, and the PU was chosen as the insulating material of the box. Fig. 10. Comparisons of the central temperature of the box with the PCMs having different melting points.

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