



GETON CONTAINERS

# Southeast Asian Energy Storage Container Corrosion Resistant Type





## Overview

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Using phase change material (PCM) as the energy storage medium and applying it in a latent heat energy storage system has become an important way of new energy application. PCM has been widely used i.

Can organic phase change materials corrode packaging containers?

When organic phase change materials are used as energy storage media, corrosion of packaging containers will also occur. Kahwaji et al. performed corrosion tests on six organic phase change materials, and their selected material formulations are shown in Table 9.

Why is corrosion resistance important for macro packaging?

For macro packaging, ensuring the corrosion resistance of packaging materials in the TES system has become its main problem, because it is not only related to the safety of food in the transportation process but also related to the long-term use and complete function of the entire energy storage system , .

What is corrosion inhibitor technology?

The corrosion inhibitor molecules are adsorbed on the surface of the container to form a protective layer, which greatly reduces the corrosion rate of the container in an acidic environment. At present, corrosion inhibitor technology is also developing in the field of energy storage.

Can PCM be used as energy storage media?

When using PCM as energy storage media, the corrosion problem is also extremely important, because different PCM for different packaging materials corrosion is also very different. PCM will inevitably cause varying degrees of corrosion to both metals and polymers, damaging the storage containers to varying degrees and reducing their life.



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This problem will shorten the service life of the energy storage system and even lead to a serious leakage. This paper analyzes the corrosion mechanism of common metals, summarizes the ...

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Review Article Review of research progress on corrosion and anti-corrosion of phase change materials in thermal energy storage systems  
Mingshun Liu, Xuelai Zhang, Jun Ji, ...

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