

Doha Mobile Energy Storage Container Corrosion-Resistant





Overview

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 , .

Can multi-shell microencapsulated PCM be used for high-temperature energy storage?

Similarly, Sheng et al. reported the synthesis of multi-shell microencapsulated PCM (MEPCM) composed of Al-25%wet Si core and Al₂O₃, and the results showed that the MEPCM prepared by them could be used for high-temperature energy storage of solar thermal power generation.

Can dodecanol be used as a building thermal management material?

Veerakumar et al. studied the corrosion characteristics of dodecanol as a building thermal management material, and analyzed the corrosion behavior of several common building materials copper, aluminum, and stainless steel 316 under the action of PCM.



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