

Corrosion-resistant folding containers for power stations in Burundi





Overview

Why is corrosion a problem in energy storage systems?

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 corrosion research status of phase change materials, and summarizes several common corrosion protection methods.

Can corrosion inhibitors be used in energy storage?

Adding corrosion inhibitors has become one of the main anti-corrosion methods. The technology is used in many production processes, including the production of petroleum products. At present, in the field of energy storage, research on corrosion inhibitors is also in progress.

Which PCM is most corrosion-resistant?

Experimental results show that stainless steel is the most corrosion-resistant and can be used with all PCMs. Perpex showed minimal corrosion, but its low thermal conductivity did not meet the system design requirements of TES. The corrosion of aluminum and copper is shown in Fig. 5.

Does silicon affect the corrosion resistance of Fe-Cr-Si alloys in molten aluminum?

Long et al. studied the effect of silicon on the corrosion resistance of Fe-Cr-Si alloys in molten aluminum. After research, it was found that Fe-Cr-Si alloys with a silicon content of 1.5 wt% showed the best resistance to molten aluminum.



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