

Bulk Procurement of Corrosion-Resistant Solar Containers for Power Stations





Overview

Which Alloy owes the best corrosion resistance in solar salt?

Dorcheh et al. studied the corrosion behavior of ferritic steel, austenitic steel and Inconel625 alloy in solar salt at 600 °C, drawing a conclusion that Inconel625 alloy owed the best corrosion resistance.

What is concentrating solar power (CSP)?

The current commercial deployment of concentrating solar power (CSP) relies on a system of thermal energy storage (TES) for round the clock generation of electricity.

Which corrosion products are formed in solar salt?

Adapted from Ref. The principal corrosion products formed in Solar Salt are FeCrO_4 , Fe_2O_3 , and MgFe_2O_4 , indicating the importance of Mg impurity in the electrolyte for the formation of oxide layer, and also a less dense and less protective outer layer of NaFeO_2 was identified , , .

What is the corrosion rate of solar salt at 600 °C?

The corrosion rates in Solar Salt at 600 °C are practically the same as those of AISI 316, 321 and 347 tested at the same conditions and showing analogous increase of corrosion rate at 680 °C , associated with build-up of additional corrosion products at the higher temperature.



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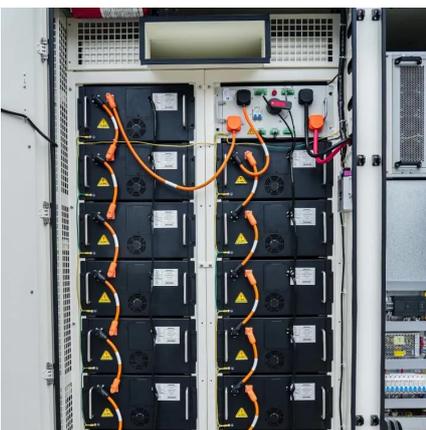
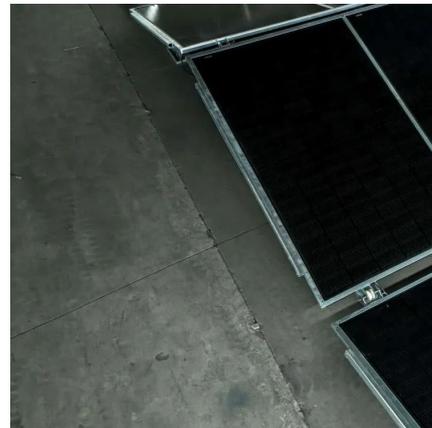


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