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Middle East Solar Container Corrosion Resistant Type

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.

Why is molten salt protective film important for concentrating solar power plants?

Protective film formed by CaCr 2 O 4 deposition slows down the corrosion process. The molten salt thermal energy storage system is the most important composition of concentrating solar power plants, resulting in the corrosion behavior of alloys in molten salts is essential to be analyzed to ensure the long-term stability of the system.

Why is molten KCl-CaCl 2 corrosion resistant?

This protective film reduces direct contact between the samples and the molten salts, which slows down the corrosion process. The chemical stability of W in high temperature contributes to the superior corrosion resistance of the Haynes230 alloy. 4. Discussion 4.1. The corrosion mechanism of alloys in molten NaCl-KCl-CaCl 2.

Which alloy has the best corrosion resistance?

Analysis of different corrosion resistance of alloys The investigation indicates that Haynes230 alloy exhibited the best corrosion resistance, followed by TP347H alloy, whereas Inconel625 alloy showed the weakest resistance. The corrosion of alloy samples in molten chloride salts was primarily caused by the selective dissolution of Cr and Fe .

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