

# Solar container materials and structural materials

This study evaluates the proposal of a concrete storage tank as molten salt container, for concentrating solar power applications. A characterization of the thermal and mechanical ...

Heat storage material Tts, &#176;C Structural materials Compatible with HSM Incompatible with HSM Reference Sodium hydroxide 3-5-hydrate 4-40 AISI 304 stainless steel, C20 steel AG and Dural ...

Solar energy systems are well-researched to improve performance and efficiency and reduce per-unit energy costs [[5], [6], [7]]. The fluctuation in the solar energy supply due to climatic ...

The global water scarcity and deteriorating environment call for the development of environmentally friendly water treatment technologies. Solar-driven evaporation, well-known as a critical step of water ...

The high-temperature container materials that are able to resist the aggressive chemical behavior of the molten salts used in NGNP are basically high-temperature alloys (some stainless steels, Inconel, and ...

The recent focus has evolved to prioritize the environmental impact of building materials, reflecting an increasing recognition of the need for materials that uphold the structural, ...

Conclusions A pilot plant characterization study was carried out using a concrete storage tank to be proposed as container material in CSP plants. After a thermal test using solar salt ...

As it can be seen in Table 1, most of the works reported in literature are focused on the compatibility of different purity grade (analytical, refined or industrial) solar salt with common ...



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