

Alofi Solar Container High Temperature Resistant Type





Overview

Are solar absorber materials suitable for high-temperature operation?

One major barrier is the unavailability of suitable solar absorber materials for operation at higher temperatures. In this work, we report on a new high-temperature absorber material by combining Ti₂AlC MAX phase material and iron-cobalt-chromite spinel coating/paint.

Is Ti₂AlC Max a durable material solution for high-temperature CSP applications?

Conclusions In conclusion, we have developed a new durable material solution for future high-temperature CSP applications by combining Ti₂AlC MAX phase material and iron-cobalt-chromite spinel coating/paint.

Is SiC ceramic a good solar absorber material?

These solar absorptivity values are even 1.6–3.3% higher than that for the sintered SiC ceramic that is a widely used solar absorber material. Divergence of solar absorptivity during these relatively long testing periods is less than 1.1%, indicating remarkable stability of the absorber material.

What temperature can refractory alloys be used in open-air environments?

In practice, the maximum allowable working temperature of the refractory alloys in an open-air environment is generally below 1250 °C, which is much lower than the ceramic materials.



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