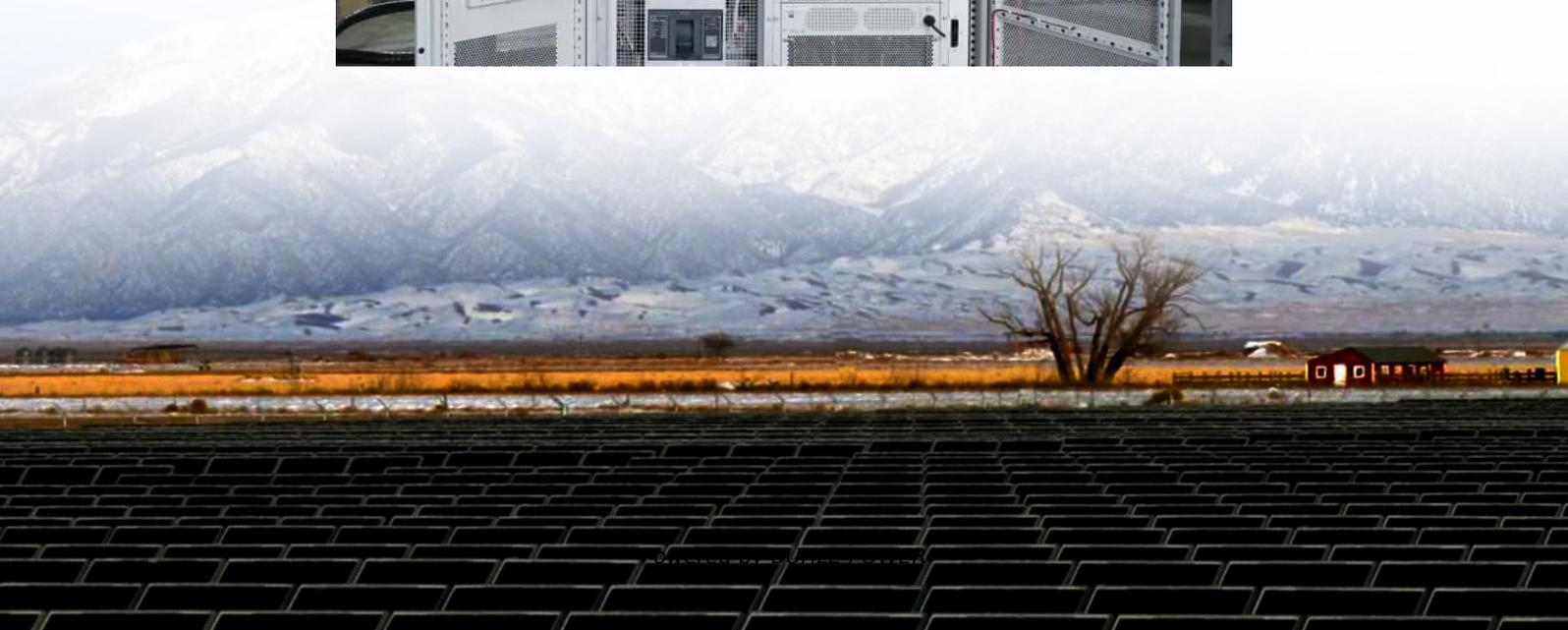


# **Akra Solar Container High Temperature Resistant Type**





## Overview

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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 Ti<sub>2</sub>AlC 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.

Are yttria-stabilized zirconia cermet-based surfaces suitable for high-temp solar absorber applications?

However, their performance at high temps. (>450 °C) is still not satisfactory due to high IR (IR) emittance and lack of long-term thermal stability. Here, we explore yttria-stabilized zirconia (YSZ) cermet-based spectrally-selective surfaces for high-temp. solar absorber applications.

What is a heat resistant plastic?

Heat-resistant plastics range from PC at 135°C to PI at 400°C continuous service. PEEK (250°C), PTFE (260°C), and PEI (200°C) represent the most commonly machined high-temperature options per ASTM D648 testing standards. Heat-Resistant Plastic Temperature Ranges:



## Akra Solar Container High Temperature Resistant Type

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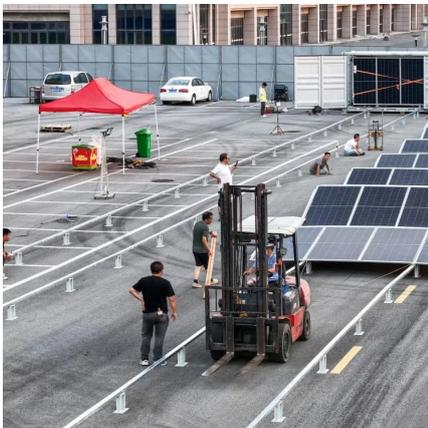


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