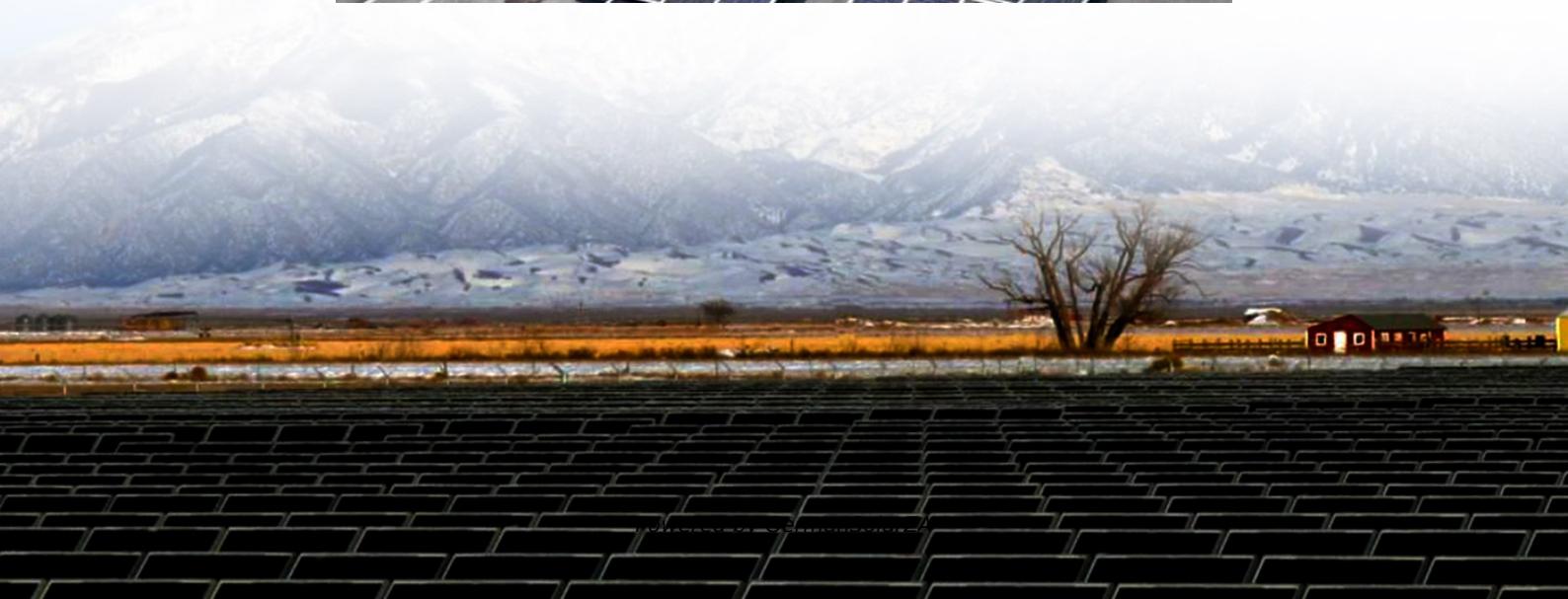




GermanSolarZA

# Alumina solar glass





## Alumina solar glass



### [Influence of sintering process on microstructure and ...](#)

Improvement in hardness of alumina has advantages in ballistic performance and wear resistance of the material. Spark plasma sintering (SPS) and micro...

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### [Thermally conductive and electrically insulative](#)

...

In terms of electrical insulation, alumina/epoxy composites maintain excellent performance (10 14  $\Omega\cdot\text{cm}$ ), comparable to ceramics and glass but superior to carbon-based or ...

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### [High-temperature mechanical properties and thermal](#)

Oxide/oxide ceramic matrix (oxide/oxide) composites are a class of materials that show excellent mechanical properties under severe conditions, such as high-temperature and ...

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## Aluminum Oxide

Alumina (Al<sub>2</sub>O<sub>3</sub>) is defined as a natural metal oxide characterized by high hardness, wear and corrosion resistance, and biocompatibility, making it suitable for various industrial and medical ...



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### Composite dispersants for the preparation of monodisperse ...

In the current process for the preparation of spherical  $\gamma$ -alumina powders by homogeneous precipitation, monodispersant is commonly used. Unfortunately, ...

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### Recent processes for the production of alumina nano-particles

Abstract Alumina nano-particles have wide usage in the adsorption and catalysis fields, because of its acid-base properties, high specific area, mechanical and thermal stability. ...

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### Recent advances in photopolymerization 3D printing of ...

Alumina ceramic has excellent chemical stability and strength multiplication as the preferred ceramic core to alleviate the cooling channel instability in casting alloys. The large ...

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### **Synergistic strengthening mechanism of zirconia-reinforced ...**

Alumina-based ceramics, a crucial structural material, are extensively exploited in cutting tools and biomedical (dental) applications due to their high strength, thermal ...

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### Joining alumina to metals: Technologies, challenges, and ...

Joining alumina to metal presents several challenges due to differences in material properties, especially since alumina has a lower coefficient of thermal expansion (CTE) ...

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