



LLSE CONTAINERS

The relationship between solar glass and metal





Overview

What are the properties of glass vs Metal?

The glass has many excellent properties, such as high compressive strength, good corrosion resistance, and good optical property. However, the application of glass is restricted due to the properties of brittleness and low impact [6, 7, 8]. Metal has good mechanical property and ductility .

Why is it important to bond glass and metal?

Glass and metal have wide applications in various industries due to their excellent properties. To make the most use of their properties and enlarge their applications, it is important to bond the glass and metal. Many bonding methods of glass and metal in recent years are reviewed in this article.

What is the bonding between glass and metal?

The bonding between glass and metal is widely used in the industrial field. However, glass and metal have their own physical and chemical properties. The difficulties of bonding glass and metal are mainly wetting, the matching of the CTE, and interfacial reaction.

What factors affect the bonding strength between glass and metal?

The bonding strength between glass and metal depends on the wettability. The lesser the contact angle, the better the wettability . Many factors can influence the wettability, such as oxide layer, wetting atmosphere, surface roughness, and holding time [63, 64, 65, 66].



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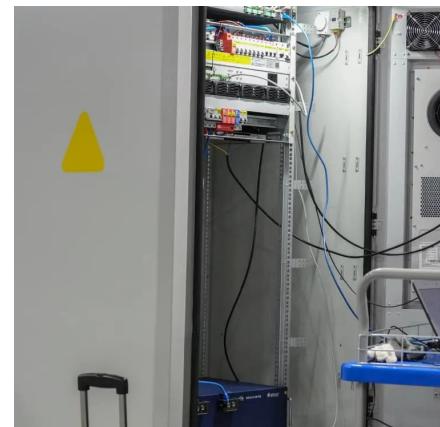


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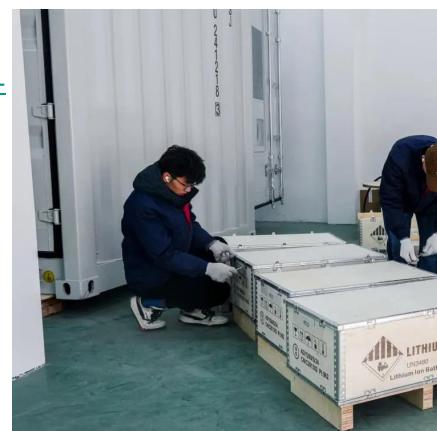
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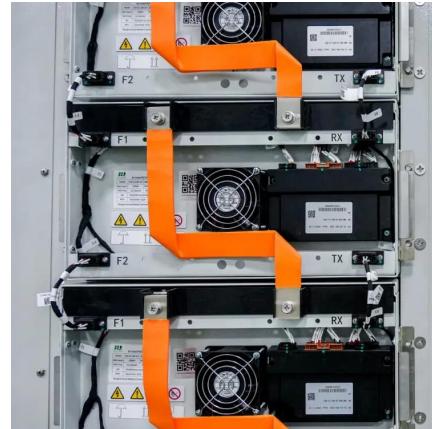
The bonding between glass and metal

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Glass-Metal bonding used in solar receiver tubes using ...

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