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Title: The role of sodium nitrate in solar glass

Generated on: 2026-03-07 11:34:38

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Sodium nitrate (NaNO_3) for Concentrated Solar Power (CSP) Sodium nitrate is a core component of molten salt heat-transfer and thermal energy storage (TES) systems used ...

Learn about its role as a flux in glass manufacturing and its effectiveness as a nitrogen fertilizer in agriculture. Find out more about the uses and benefits of sodium nitrate in ...

Its main role is to eliminate gas bubbles that form during the melting process. Here's how it works: Oxygen Release: When heated, sodium nitrate decomposes and ...

Sodium nitrate acts as a fluxing agent in glass manufacturing to regulate the melting characteristics of silicates. It's extensively used in photovoltaic glass, tempered glass, and ...

The main raw materials of photovoltaic glass include silica sand, soda ash, limestone, dolomite, sodium nitrate, glauber's salt, sodium antimonate, and aluminum ...

By modifying the glass composition, sodium nitrate can contribute to the formation of a stronger network structure within the glass matrix, improving its resistance to mechanical ...

Sodium nitrate reacts chemically with the glass surface to etch the desired patterns and shapes. In addition, sodium nitrate can be used as a colorant for glass.

Commonly used clarifying agents are nitrated salts, namely sodium nitrate. Sodium nitrate as a decolorizing agent is mainly used to eliminate the undesirable colors brought to the ...

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Sodium nitrate, as a clarifying agent, can promote the aggregation, precipitation or volatilization of these impurities during the melting process, thereby purifying the glass melt ...

Sodium nitrate plays a crucial role as a glass refining agent in the manufacturing of various glass types, including optical glass and container glass. Its function in the glass batch ...

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