

Here we perform laboratory experiments to investigate the temperature and relative humidity conditions necessary for deliquescence to occur in calcium chloride-rich sediments collected ...

Here we quantitatively evaluate $\text{ClO}_4^-/\text{Cl}^-$ fractionation in deliquescence-induced brines of magnesium- and calcium-perchlorate-chloride salt mixtures under subzero conditions, by ...

Calcium chloride is also applied in association (composites) with other materials in order to improve their suitability for the above-mentioned applications. This paper reviews the use of ...

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Figure 6 (a) and (b) shows XRD of the impregnation of calcium chloride on caged silica as the peak of silica at $2\theta = 22.5^\circ$; remains intact while other peaks at $2\theta = 29.7^\circ$, 22.5° , 46° ; and ...

Liquid Calcium Chloride Solar Storage: Concept and Analysis: Article No. 011010. Journal of Solar Energy Engineering, Transactions of the ASME, 133 (1). <https://doi/10.1115/1.4003292>

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Therefore, a host is required to make a stable composite. Composite of activated carbon fiber (ACF) and lithium chloride can keep the adsorbent immobile even after the occurrence of ...

In this work, specific attention is given to the stability of calcium chloride-based materials, since it is a serious concern as discussed. Attempts have been made to stabilize calcium ...

Explore the industrial applications of calcium chloride. Learn about its unique properties, uses in deicing and dust control, and best practices for safe chemical storage and handling in various ...

Calcium chloride solar container deliquescence

In this paper, calcium chloride is analyzed as a possible storage material. CaCl_2 is known for its high deliquescence. Its exothermal hydration reaction can be used for storage ...

In the colder part of the boiler, calcium chloride (CaCl_2) may form when utilizing fuels containing chlorine. Calcium chloride is a deliquescent salt which can absorb moisture from the flue ...

The dual deliquescence processes, i.e., (1) transformation of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$ to $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$ prior to deliquescence and (2) direct deliquescence of $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, were also observed using Raman ...



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