

## CALCIUM MONTMORILLONITE

Montmorillonite, the key component of calcium montmorillonite desiccant, exhibits physical adsorption, capable of absorbing over 17% of its weight in water vapor at 25°C and RH40%. Montmorillonite particles are reusable after reactivation. This natural, eco-friendly, cost-effective material effectively controls humidity and prevents moisture-related problems.



### WHAT ARE THE CHARACTERISTICS OF CALCIUM MONTMORILLONITE DESICCANT?



#### HIGH ABSORPTION CAPACITY

Through chemical moisture absorption, calcium chloride has the capability to achieve a moisture absorption rate of up to 300% of its own weight.



#### NON-TOXIC

Generally safe for use, suitable for a wide range of applications



#### ENVIRONMENTAL FRIENDLINESS

Safe for diverse applications, including food packaging and humidity-sensitive environments.



#### REGENERABILITY

Once saturated with moisture, it can be regenerated by heating, allowing it to be reused after moisture removal.

### WHAT IS THE METHOD FOR PRODUCING RAW MATERIALS FOR CALCIUM MONTMORILLONITE DESICCANT?

The raw materials for Calcium montmorillonite desiccant are sourced from natural montmorillonite clay deposits, extracted through mining. After extraction, the clay undergoes processing to eliminate impurities, including crushing, grinding, and screening. Some treatments, like ion exchange, enhance its desiccant capabilities. The refined clay is shaped into desiccant products for diverse applications, such as packaging and storage, before distribution.



### WHAT CAN CALCIUM CHLORIDE DESICCANT BE USED FOR?

Calcium montmorillonite has relatively weaker dehumidification properties compared to traditional desiccants, such as silica gel or molecular sieves. Therefore, its application for dehumidification is relatively limited. However, it can still be effective in specific scenarios:



#### • DRYING AGENT

Can serve as a drying agent in the production of moisture-sensitive products



#### • HUMIDITY CONTROL IN CONFINED SPACES

Use in confined spaces such as storage containers, closets, and safes to control humidity and prevent damage to stored items



#### • PRESERVATION OF GOODS

Use in packaging for leather goods, electronic components, and machinery to preserve their quality and protect against moisture-induced degradation.



**WISERBENT TECHNOLOGY LLC**

11 E Stow Rd, Marlton, NJ 08053, USA  
info@wisesorbent.com



• For additional desiccant solutions visit [wisesorbent.com](http://wisesorbent.com) •

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info@wisesorbent.com

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**+1 (800) 272-5238**