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**DMF
FREE**

About *SORBSTAR*

SORBSTAR is a leading manufacturer of desiccants and adsorbents in China, specializing in research, development, and production of moisture-absorbing and anti-corrosion solutions.

We are committed to serving diverse industries such as lithium batteries, automotive parts, electronics, food, biotechnology, hardware, machinery, and marine container shipping. With advanced manufacturing facilities, experienced R&D teams, and strict quality control systems, SORBSTAR ensures that every product meets international standards of safety, efficiency, and reliability.

Our comprehensive product portfolio includes silica gel desiccants, calcium chloride super absorbents, magnesium chloride desiccants, container desiccants, clay and mineral desiccants, strip desiccants, calcium oxide desiccants, flower drying agents, and activated carbon adsorbents.

All our desiccants are tested and certified to meet global export standards. Our desiccant products comply with REACH and ROHS standards, and we can provide SGS product test reports, halogen and sulfur element test reports, and MSDS chemical composition reports.



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Montmorillonite Desiccant

Montmorillonite Desiccant is a physical adsorbent desiccant made from natural montmorillonite clay as the main raw material, processed through crushing, drying, activation, and granulation. With its layered structure and large specific surface area, it can effectively adsorb and retain moisture from the air without any chemical reaction, thereby providing protection against dampness, mold, and corrosion.

At SORBSTAR, Available in various formats including Small Sachets / Packets, Strip / Roll Form, Medium & Large Pouches / Bags, Container Desiccant (hanging strips).

Natural & Eco-Friendly Moisture Control

- ✓ 100% Natural Clay
- ✓ Safe | Eco-Friendly
- ✓ Reliable Moisture Absorption
- ✓ DMF-Free, REACH, ROHS, SGS, MSDS compliant



Montmorillonite Clay Packets

(2g, 5g, 10g, 20g, 50g, 100g, 200g)
Pharmaceuticals, food packaging,
electronics, shoes, garments, daily
consumer goods



Strip/Roll Form, Container Desiccant

(1kg/1.5kg/2kg)
Used for hanging in shipping
containers, storage cabinets and other
spaces



Medium & Large Pouches / Bags

(500g, 1kg, 2kg, 5kg)
For Precision instruments, machinery,
industrial equipment, storage



Applications:

- Electronics & Precision Equipment
- Pharmaceuticals & Healthcare
- Food & Nutritional Products
- Industrial Parts & Machinery
- Furniture & Leather Goods
- Textiles & Garments
- Container & Logistics
- General Storage

Montmorillonite Clay Packets

SORBSTAR Montmorillonite clay packets is a chemically inert, non-corrosive and reusable desiccant. It works by adsorbing and trapping moisture from the air, lowering humidity and preventing the formation of mould, condensation & rust in enclosed spaces.

SORBSTAR montmorillonite packets can adsorb up to 18%-20% of their weight in water vapour at 25°C and 80% relative humidity.

At full moisture capacity, montmorillonite remains dry with no change in size or shape.

Parameter	Details
Material	Montmorillonite Clay
CAS No.	1318-93-0
Appearance	Light gray to pale brown granules or powder
Particle Size	0.5–2 mm / 1–4 mm
Bulk Density	0.85 – 1.10 g/cm ³
Moisture Absorption	18–20% (at 25 °C, RH=50%)
Effective Temperature	–20°C to +600°C
Packaging Options	Non-woven, Tyvek, Paper, or Custom options
Shelf Life	18–24 months

Features

Natural & Eco-friendly

100% natural clay, non-toxic, biodegradable, and safe for the environment.

Stable Moisture Absorption

Performs well under moderate humidity, maintaining consistent protection.

Wide Applications

Suitable for electronics, food, pharmaceuticals, textiles, logistics, and general packaging.

Cost-effective

More economical compared to silica gel while still providing reliable desiccant performance.

Regenerable

Can be reactivated by heating at 110–120° C for repeated use.





Applications

- Shipping containers (during ocean or land freight)
- Warehouses and storage units
- Household closets and wardrobes
- RVs, boats, and trailers
- Museums and archival storage
- Toolboxes, electrical cabinets

Montmorillonite Clay Packets

SORBSTAR Desiccant Strips are specially engineered high-performance moisture absorbers designed to combat humidity in enclosed spaces.

Perfect for use in shipping containers, closets, cars, boats, caravans, and long-term storage environments, SORBSTAR Desiccant Strips protect your cargo and personal belongings from mould, mildew, corrosion, and musty odors.

Each 500g strip is equipped with a durable hook for easy hanging, and constructed using DuPont™ Tyvek®, a breathable, leak-proof material that ensures moisture is locked inside without spills or reverse diffusion.

Parameter	Details
Material	Montmorillonite Clay
Appearance	Light gray to pale brown granules or powder
Particle Size	0.5–2 mm / 1–4 mm
Bulk Density	0.85 – 1.10 g/cm ³
Moisture Absorption	18–20% (at 25 °C, RH=50%)
Effective Temperature	–20 °C to +60 °C
Packaging Material	Non-woven, Tyvek, Paper, or Custom Options
Net Weight	500 g per strip
Dimensions	115 mm × 770 mm
Available Sizes	1000 g / 1500 g / 2000 g
Shelf Life	18–24 months

Montmorillonite Desiccant VS. Mineral Desiccant

Both Montmorillonite Desiccant and Mineral Desiccant are widely used solutions for moisture control, but they are not exactly the same. Mineral desiccant refers to a broad category made from different natural minerals, while Montmorillonite desiccant is a specific type derived from bentonite rich in montmorillonite clay. To help you understand the key differences and choose the right option for your products, here is a clear side-by-side comparison.

Category	Montmorillonite Desiccant	Mineral Desiccant
Definition	A specific type of natural mineral desiccant made from bentonite rich in montmorillonite.	A general category of desiccants made from various natural minerals such as bentonite, zeolite, or attapulgite.
Moisture Absorption	Strong and stable, especially effective under low humidity conditions.	Moderate, performance depends on the type of mineral used.
Moisture Retention	Holds absorbed moisture firmly, less likely to release back.	May release some moisture under certain conditions.
Appearance	Light gray to pale yellow granules, minimal volume change after absorption.	Gray-white or light brown granules, may expand slightly after absorption.
Environmental Impact	100% natural, biodegradable, non-toxic, safe for sensitive applications.	Natural and eco-friendly, but quality varies with mineral source.
Typical Applications	Pharmaceuticals, military equipment, optical instruments, precision electronics.	General packaging protection: shoes, textiles, furniture, food, electronics.

All Montmorillonite Desiccants are Mineral Desiccants, but Montmorillonite offers **superior moisture absorption, stability, and reliability**, making it the **premium choice for sensitive and high-value applications**.

Montmorillonite Clay Packets Specification

we offer wholesale discounts for bulk orders and custom packaging to align with your brand identity. Private label, custom packaging, and OEM orders are welcome.

Weight (gram)	Packet Material	Size L*W (mm)	Package (pcs/ctn)	Carton Weight (kg/carton)
3	opp	45*50	4000	12
5	opp	45*60	3000	15
10	opp	45*80	1500	15
50	Non-woven Fabric	80*120	400	20
100	Non-woven Fabric	90*140	200	20
200	Non-woven Fabric	115*180	100	20
250	Non-woven Fabric	115*190	80	20
300	Non-woven Fabric	115*200	60	18
500	Non-woven Fabric	160*210	40	20
1000	Non-woven Fabric	110*765	10 strips/carton	10 kg/carton