



Dry Guard-1000

Dry Guard-500

Moisture damage

For many years, thousands of containerized cargoes are damaged by moisture problems. When the containers arrive in the destination, metal is found to be rusty or oxidated, cartons become soft and moldy, bulk coffee, cocoa, beans maybe damp, musty..., such loss sometimes costs several million dollars. It is caused by two main reasons: **Cargo Sweat and Container Rain.**



Container moisture solution

TOP-SORB focus on the supply of desiccant products and moisture-proof packaging system solutions and professional services, protect your valuable goods from humidity damage. For containerized cargo damp problems, we provide a solution, **TOP-SORB** series container desiccants, which create a dry environment in the container. It can effectively adsorb humidity, and control "dew point" temperature below the actual temperature, and thus prevent mildew, rust formation.

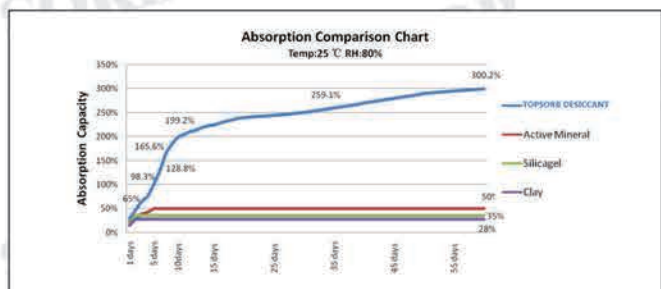
Dry Guard -1000g,500g

- * **Dry Guard** has big "breathing area", which makes adsorption faster, more effective in the same space and period;
- * It can be inserted into the container grooves, without occupying loading space;
- * Reduce relative humidity ,Control "dew point" ,protect the cargo during the whole ocean voyage.

Super adsorption

According to the test results of authoritative international organization, **Dry Guard** uses absorbent in a unique formula, its adsorption capacity reaches over **250%** in **30 days**, keep adsorbing moisture for **60 days**, the saturated adsorption can reach **300%**. we can provide TUV 30 days adsorption test report.

Adsorption chart



■ Adsorption capacity at different RH

Relative Humidity	20%RH	30%RH	40%RH	50%RH	60%RH	70%RH	80%RH	90%RH
Adsorption	≥25%	≥50%	≥70%	≥90%	≥120%	≥160%	≥200%	≥250%

■ Specification Sheet

Specification	Pack Size (mm)	Net Weight (g)	Pack Qty (pcs/ctn)
Dry Guard-1000	160*1125	1000g	6
Dry Guard-500	160*750	500g	12

■ Applications

Widely used in various fields, including:
 Semiconductor and electronic products, metal products,
 Military products, precision instruments, machinery equipment,
 Chemical materials, medicine, health care products,
 Food packaging, canned food,
 Pet food, textiles, furniture, leather products,
 Bulk grains, agricultural products,
 Transport of goods, warehousing.....

Perfect Designs to Suit Container Grooves

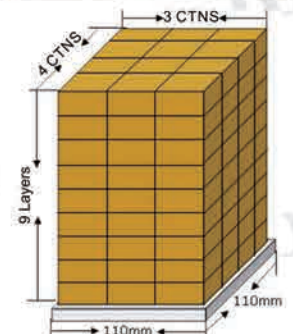


Dry Guard-1000

Dry Guard-500

■ Packing & Loading

Package: 2 big PE bag/carton
 Shelf life: 24 months from production date
 Carton Size: 370X275X220mm
 Gross Weight: 7.4kg
 Ctn Qty per pallet: 12ctns/layer x 9layer=108ctns



■ Comparison Pictures

Before using

After using



■ Application Pictures



■ Absorbent: turn into gel, no liquid

Dry Guard -1000g,500g use the mixture of CaCl₂ and high water adsorption material as absorbent. Its adsorption capacity reaches over **250%** at 25°C,90%RH. More importantly, this special mixture material **turns into solid gel after full adsorption.**



Before Adsorption



After Adsorption

■ TopSorb VS Other CaCl₂ powder desiccant



Other CaCl₂ powder desiccant

Most of other CaCl₂ desiccants, **the CaCl₂ powders inside sachets turns into entire liquid when the adsorption reaches 60%~80%.** This state of being liquid lasts several days or even longer (depending on the temperature & humidity conditions), then it slowly turns into gel.

It is a high-risk period when the absorbent remains in liquid. When the desiccant sachets are squeezed or pressed during transport or operation, the joint of sealing part has a risk to be cracked and damaged. As a result, the leakage occurs from the inside liquid, and then the customers' goods is polluted by the leakage.



TopSorb desiccant

TopSorb developed unique formula of absorbents, which is quite different from other desiccant, not matter in physical appearance, or in adsorption performance.

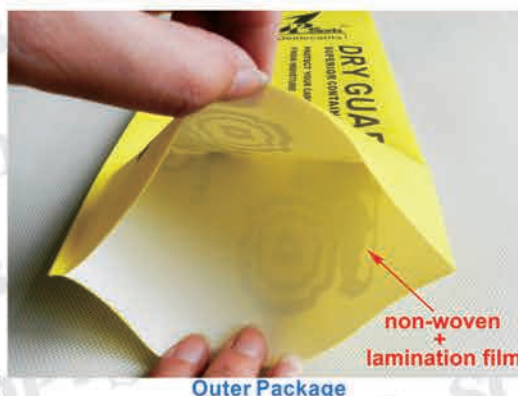
First, it has stronger adsorption capacity over **250%~300%.**

Second, **in the whole process of absorbing, the absorbent remains in solid form, no single minute turn into liquid form,** from the beginning, to the full working conditions, until being saturated. It entirely prevents the risk of liquid leakage.

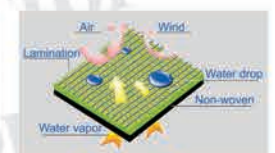
■ Double-layer package: excellent anti-leakage

Dry Guard has double-layer packages. Both packages have good air breathing ability and excellent anti-leakage performance.

Water test: pour water into the inner bag, and hang up for one month. There is no any leakage. (Remarks: pigment is added into the water to enhance the visibility.)



Outer Package



Air Breathing



Inner Package