

An ISO 9001-2008 Certify Company



Manufacture & Exporter of Silica gel & Silica gel Pouches  
Activated Clay, Containers Desiccant,  
Activated Alumina

## **PRODUCT SHEET**

### **I DRY™ CONTAINER DESICCANTS**

#### **PURPOSE**

To eliminate mold, corrosion, mildew, spoilage, warping, and other harmful effects of moisture during shipments via container, rail, barge, truck or in storage.

#### **WHAT IS IT?**

I DRY™ is a line of specially designed cargo desiccants aimed at protecting cargo during shipment by aggressively absorbing moisture from the air. In doing so, I DRY™ reduces dew point temperature (the temperature at which condensation begins to form, causing “container rain”), keeping cargo safe and dry. The I DRY™ line includes several configurations to best fit different needs and modes of transport.

#### **WHY USE IT?**

As goods move through intermodal systems, they are susceptible to damage from excessive moisture. I DRY™ adds a level of protection by reducing dew point to avoid the accumulation of condensation.

Our I DRY™ range of adsorbents adsorbs moisture upto 40% - 200% of its own weight depending upon the composition of the adsorbent,.

I DRY™ has an advanced formula that traps the moisture and converts it into a thick, no-spill gel. I DRY™ has the ability to protect shipments from start to finish, through all temperature ranges and relative humidity variances, and continues to reduce the relative humidity down to levels below 40 percent RH, which decreases the dew point temperature even further.

#### **Advantages of using Container Desiccants**

1. Absorbs up to 200 % + of its own weight depending on mix and packaging.

2. Once moisture has been absorbed by container desiccant it cannot evaporate and return into the environment. Container desiccant absorbs moisture and turns the resultant mix into a gel by means of an irreversible chemical reaction
3. Broad application temperature range from -5°C — 90°C
4. Non Toxic and DMF free
5. Ship goods without the threat of "Container Rain"
6. Inhibits the formation of mold, mildew, rust and corrosion
7. Provides 60+ days of moisture protection
8. Environmentally safe and can be disposed of as normal waste

## AVAILABLE CONFIGURATIONS

I DRY™ is available in several configurations to best accommodate different modes and methods of shipping. The number may vary depending on shipping conditions and the nature of the products being protected. OM CHEMICALS works with customers to determine the optimal number of bags needed to protect goods for the duration of their journey.

Description	Weight	Usage Recommendation		
		20-ft Cont.	40-ft Cont.	50 -ft Cont.
<b>I DRY™</b> 80 Individual bags with or without hangers. <b>Form</b> : Powder or Granules <b>Packing</b> : Inner packing : Tyvek ; Outer Packing : Non Woven Bag	<b>250 GMS.</b>	24 – 32	48 – 64	60 -
<b>I DRY™</b> 50 Individual bags with or without hangers. <b>Form</b> : Powder or Granules <b>Packing</b> : Inner packing : Tyvek ; Outer Packing : Non Woven Bag	<b>500 GMS.</b>	16 – 20	32 – 40	40 -
<b>I DRY™</b> 24 Individual bags with or without hangers. <b>Form</b> : Powder or Granules <b>Packing</b> : Inner packing : Tyvek ; Outer Packing : Non Woven Bag	<b>1000 GMS.</b>	8 – 10	16 – 20	20 -

## SPECIFICATIONS



1000 / 500/100/250 Gms. Container Desiccant in inner Tyvek bag and outer sewn PP non-woven bag with plastic hangar to facilitate hanging.

### **Type: Desiccant:**

CDX formulated desiccant

### **Typical Chemical composition:**

40 - 30% modified starch + 60 - 70% CaCl<sub>2</sub>

Appearance: White Powder/ Granules

Thickness: 70 GSM Bag style

Material: Inner bag: heat-sealed Tyvek,, produced by Du Pont

Outer bag: sewn PP non-woven with strong plastic hangar

3 sides heat-sealed/sewn

Particle size of desiccant:

0.001 -3mm Moisture content: <5% (150 °C)

The adsorption capacity of desiccant:

>=200 % at 35 °C and 100%RH

### **What factors should be considered in the selection of container desiccant?**

Shop around, to know good or bad. Customers shall consider the following factors in the selection of container desiccant:

### 1. Adsorption capacity of desiccant

For different desiccant products, if at the same price, the higher adsorption capacity the desiccant has, the more it shall get prior consideration.

### 2. If desiccant package has good air permeability and leakage resistance capacity at the same time.

Desiccant package shall have good air permeability, or desiccant can't effectively absorb moisture and prevent the cargo from humidity damage.

However, it is not enough. Truly qualified package requires also reliable leakage resistance ability. The package materials of a lot of the desiccant products in the current market, have merely air permeability, but no anti-leakage ability. After desiccant adsorbing, moisture vapor condenses into liquid water, which escapes through the package and drops down to the goods. As a result, the goods is not being protected, but in fact being damaged. It brings big loss to the consignors or consignees.

### 3. The procurement cost of desiccant at the same moisture adsorption.

According to the cargo tracking test results offered by relevant international institute, to guarantee the safety of goods, in a 20 'container, container desiccant shall adsorb at least 8 KG water vapor from the air.

For example, there are three kinds of desiccant products A,B,C, their moisture absorption capacity were 40%, 75%, 100% respectively, then 20 KG, 10.67KG, 8KG are needed. You can compare the procurement costs of the three to arrive at a genuine conclusion.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. OM CHEMICALS makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Power Concept -EG products for its particular application.

For additional information, please contact Power Concept -EG