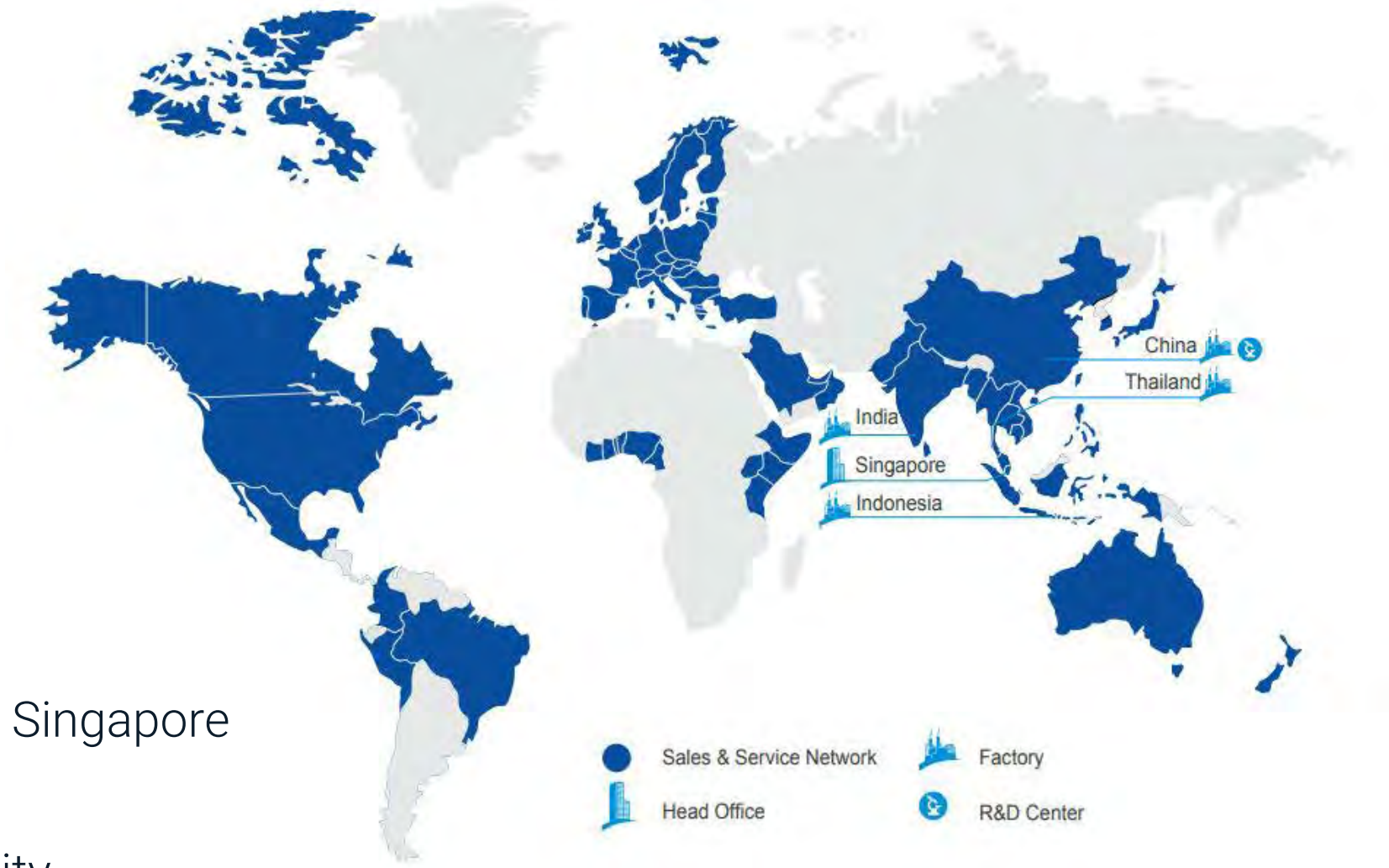
SD SUPER DRY

Protect and Deliver your Cargo in Perfect Condition



- Etablished in 2000 in Singapore
- 4 factories
- 6 000 000 kgs capacity
- 45 offices/distrubutors in 25 locales

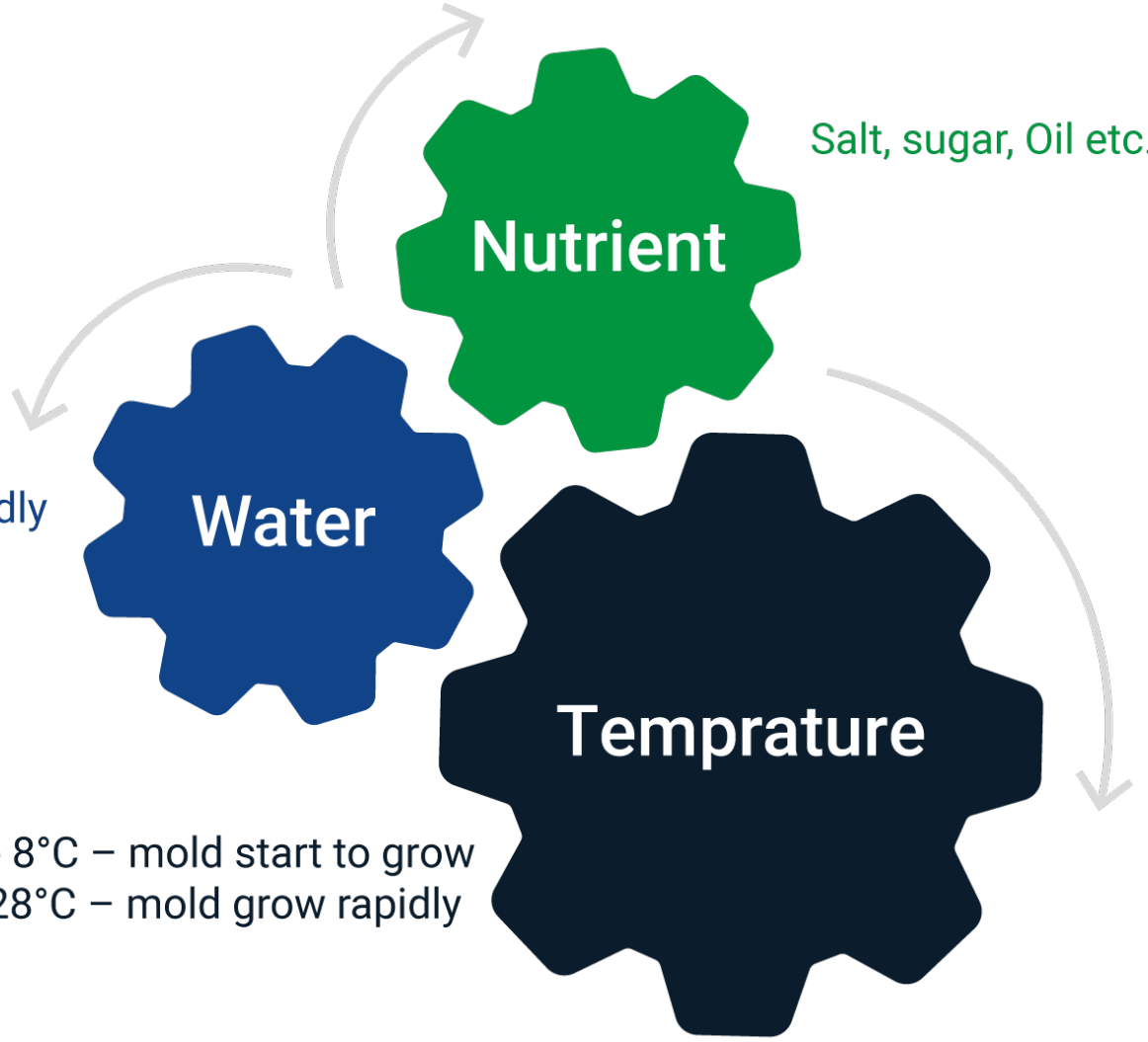
Basic knowledge of Moisture Prevention

SUPER DRY


Damage on textiles
Mould and mildew
on sofa leather
Mould and mildew
on wooden products
Mould and mildew
of agriculture seeds
Mould and mildew
on camera lens
Container rain

SUPER DRY

The Nature of Mold



RH>60% – mold start to grow
RH is 80%-90% – mold grow rapidly

*RH (relative humidity)

Above 8°C – mold start to grow
25°C-28°C – mold grow rapidly

Optimal Growths Environment of Molds

Temperature between 20-35 & Relative humidity between 75%-95%

Material Easy to Moldy

- Real leather or suede
- Imitation leather/suede in PU
- Coated fabrics (PU/Wax or Oil etc.)
- Natural rubber
- Natural down/feathers
- Garment containing artificial fibers
- Washed items
- Denim Jeans
- Real straw/jute/grass/paper

1. Workshop

– Contaminated materials

– Uncontrolled TEMP and RH

2. Packaging

– Goods packed before it gets dried

– Wet cartons

3. Warehouse

– Humid environment

– Unsealed package

4. Shipping

– Humidity by wet air (from ocean)

1. Workshop

• Manufacturing facility should be suitably ventilated to maintain a RH

• Check all materials before production to ensure all materials are clean and dry

• Keep production areas clean and dry

3. Warehouse

• Control TEMP and RH with dehumidifier and air conditioning

• Be sure warehouse is well organized

2. Packaging

• Test moisture content of products and cartons to ensure they are dry

4. Shipping

• Test moisture content of container floor before loading to ensure container floor is dry

• Use desiccant to prevent Container Rain

Inspect Container

Inspect the container, ensuring that:

- no holes or gaps;
- door are closed tightly;
- surfaces are clean and dry.

Check moisture content of container floor

- If possible, do not use container with moisture content exceeding 20%. Or please increase the amount of desiccant in the container.
- Do not use container with floor moisture content exceeding 25%.

Mold Prevention Suggestions

- Production process
  - Control the moisture during the whole process: warehouse, workshop, package.
- Container
  - Inspect the container before loading: no holes, no gaps, clean and dry
  - Check moisture content of container floor

Moisture content	Suggestion
20%	Can be used
20% ~ 25%	Need to add desiccants
25%	Do not use it

- Use desiccants
  - Desiccants can remove the excessive moisture from yout package/container

Moisture come from:

- Container floor
- Pallet
- Cartons
- Air

Moisture come from:

- Container floor
- Pallet
- Cartons
- Air
- Water Condensation
- Container rain

Desiccant Comparison

Anti-microbial products vs. Super Dry desiccants

SUPER DRY

Anti-microbial products vs. Super Dry dediccants

H_2O

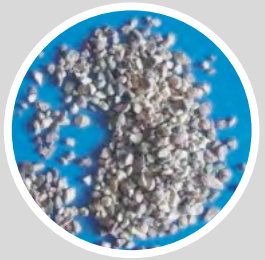
React with H_2O

→ Create an anti-microbial substance by reacting with water → Kill growing mold

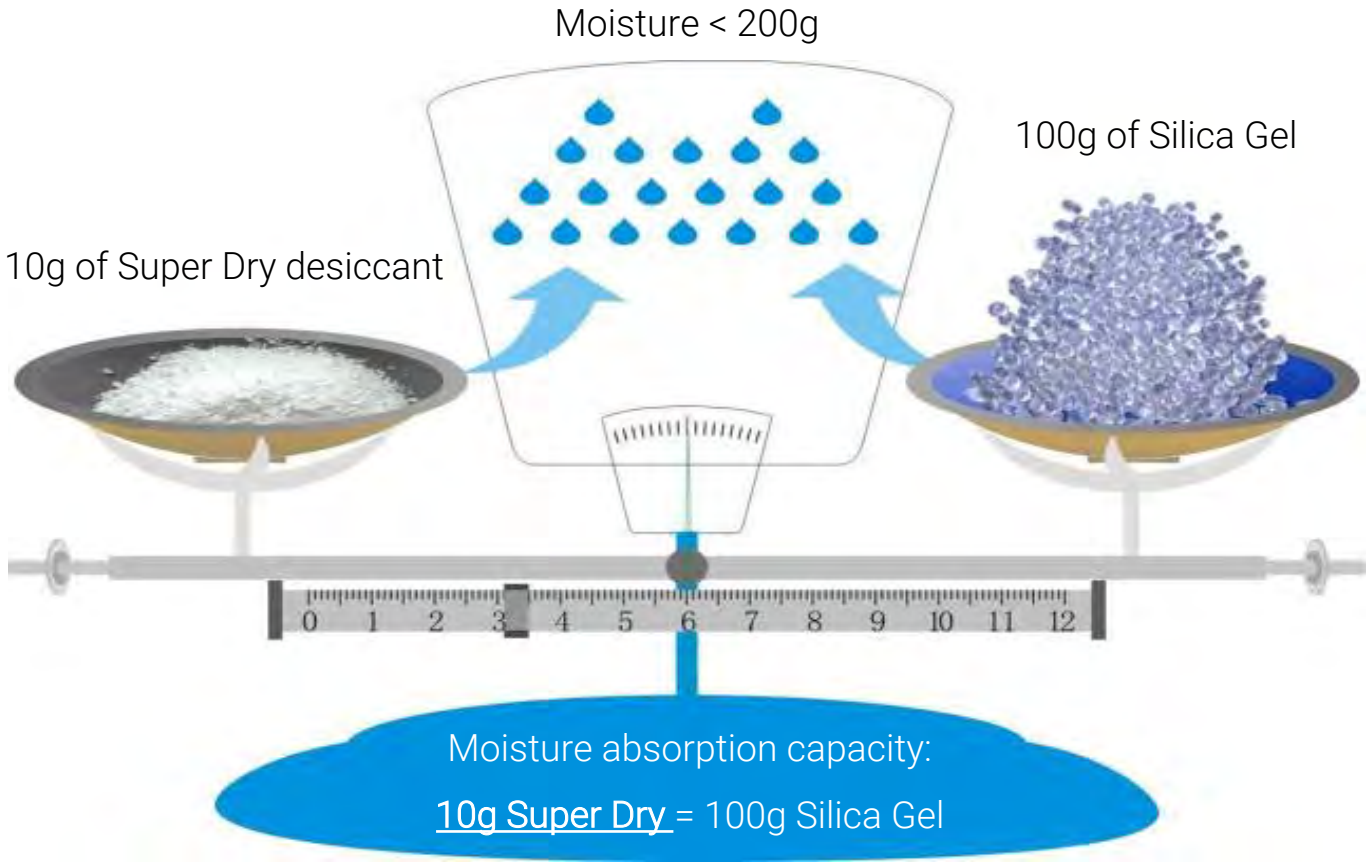
H_2O H_2O

Absorb H_2O

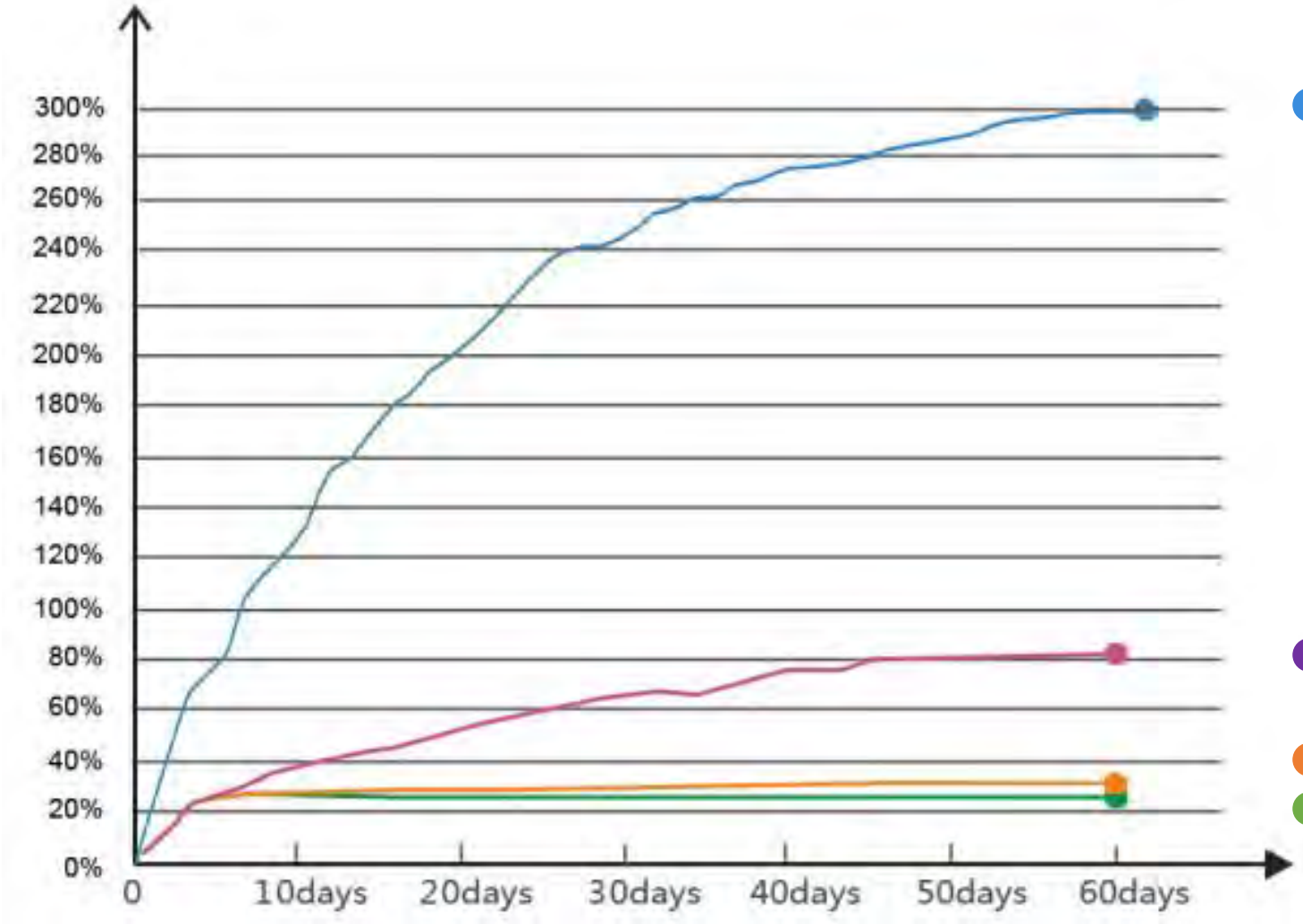
→ Cut off the water supply for mold growth by absorbing moisture → Prevent mold growth

Desiccant	Description	Absorption Rate	Application Temp
	Silica gel Ingredient: SiO_2	10%-27%	Below 35℃
	Clay Also called montmorillonite/smectite	15%-30%	Below 50℃
	Calcium chloride –Super Dry Desiccant Ingredient: $CaCl_2$	Up to 700%	-5℃-90℃

Less is more


Moisture < 200g
100g of Silica Gel
10g of Super Dry desiccant
0 1 2 3 4 5 6 7 8 9 10 11 12
Moisture absorption capacity:
10g Super Dry = 100g Silica Gel

The comparison of common Desiccant´s absorption abilitites



- Super Dry Desiccant: 301.1%
- Clay + $CaCl_2$: 84.6%
- Pure Clay: 30.4
- Silica Gel: 26.3%

Less desiccant
More moisture absorption

Introduction of Super Dry Desiccant

SUPER DRY

2g

5g

10g

25g

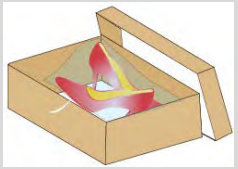
50g

100g

4.1.1 Usage Suggestion of small packade desiccant

Volume of the package (m^3)	Weight of Desiccant (g)	
	Wet season	Non Wet season
Less than 0.01	2	2
0.01-0.029	5	4
0.03-0.059	12	7
0.06-0.089	20	12
0.09-0.119	30	20
0.12-0.19	40	25
0.20-0.39	75	50
0.40-0.59	125	75
0.60-0.79	175	110
0.80-1.00	250	150

Product	Manner of packing	Weight of Desiccant
		2g
		5g
		10g

Product	Manner of packing	Weight of Desiccant
		2g
		5g

Inspect the good before packaging, ensuring that:

1. All products are dry, no mold, no stains
2. All package bags and cartons are dry and clean

Using method (take shoes for example):

1. Take the desiccant out of carton and open the plastic bag

2. Take out the suitable amount of use, put it into the package of your product

3. Seal the package instantly

4. Keep the unused sealed

DP 1000g

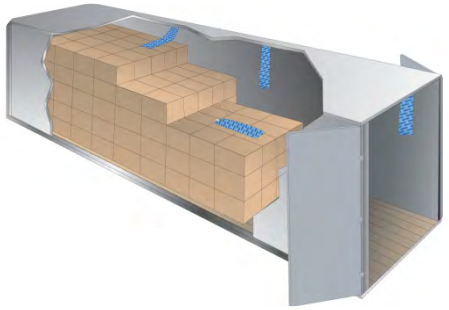
DS 1000g

DB 1000g

SQ 1000g

DS 1400g

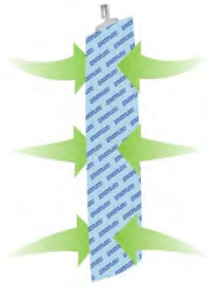
DS 1700g



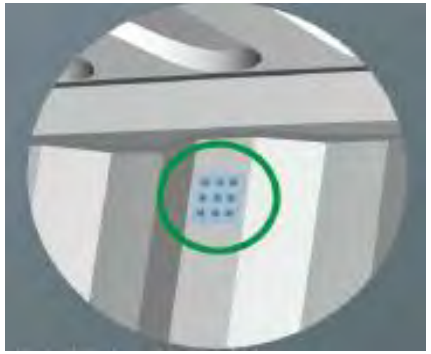
Flexibilities of placement

Multi-product

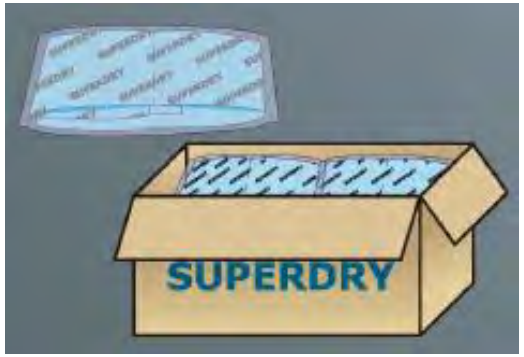
With hooks



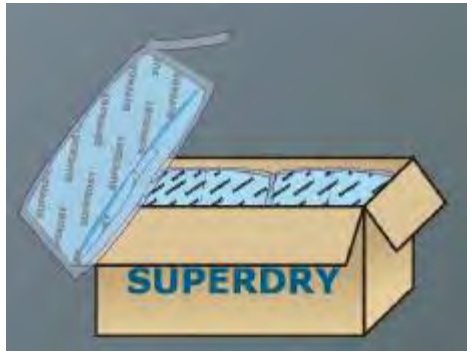
All-round absorption



1. Seal the equalization holes

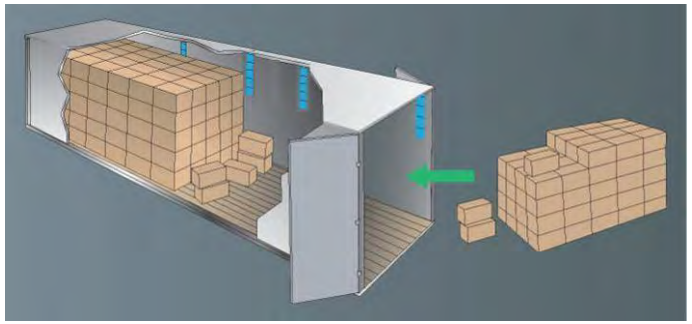


2. Take the desiccant out of the carton

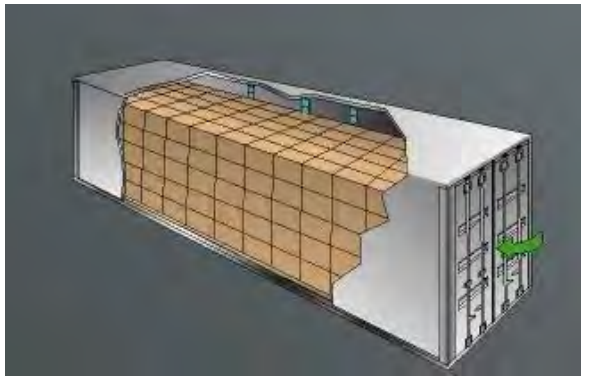


3. Open the plastic bag

4. Hang desiccant from the celling hooks

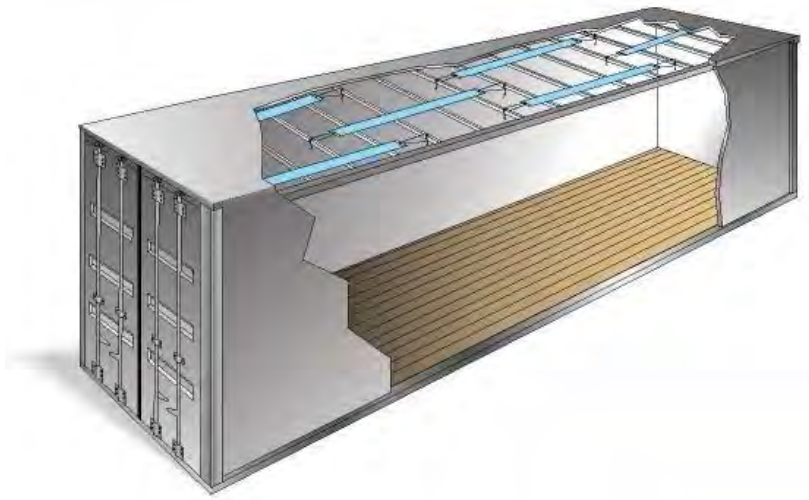


5. Keep loading tome shirt after hanging the desiccant



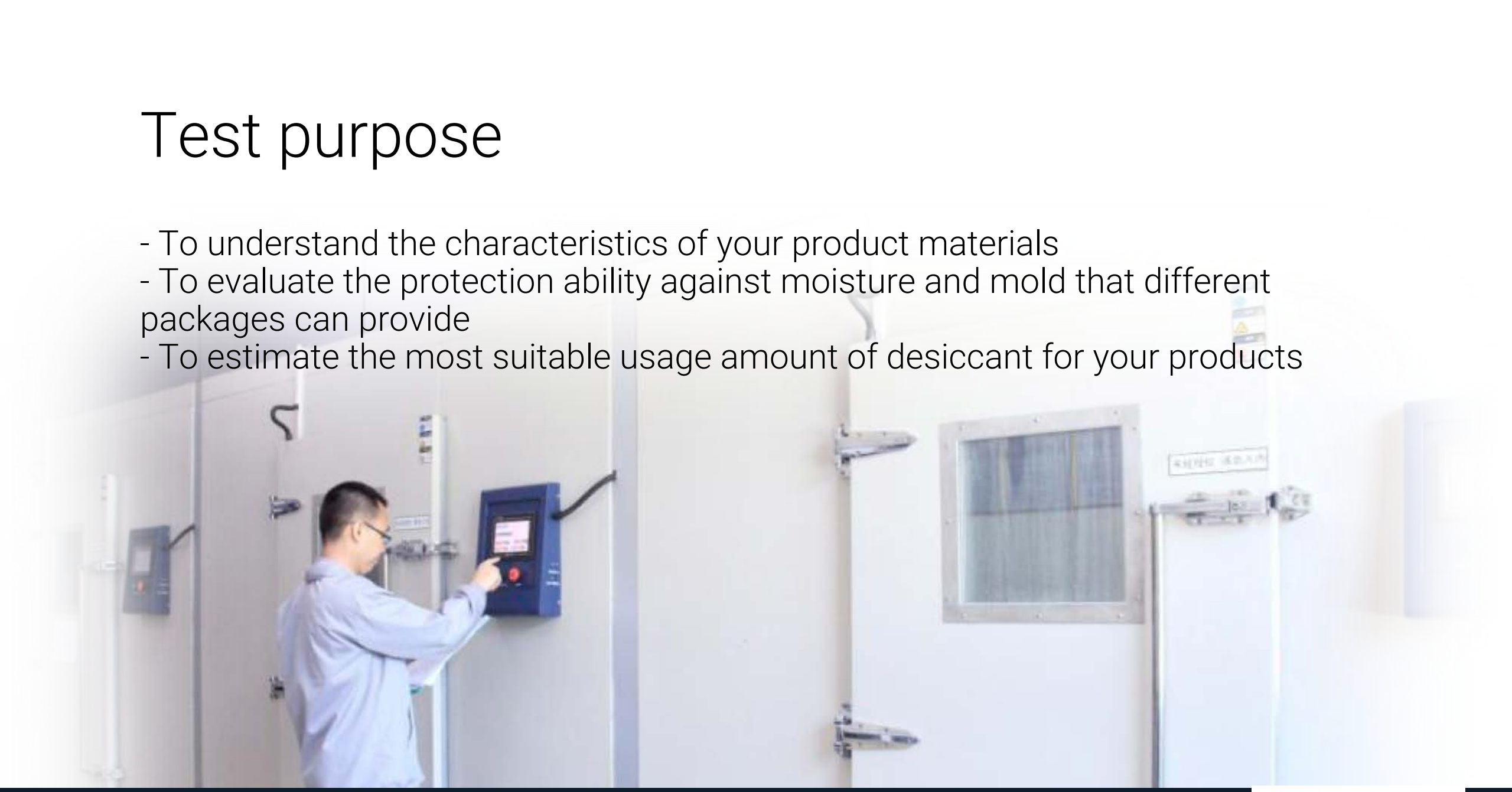
6. Seal the door as soon as possible

Size of container	Amount of usage (Unit: Kg)
20'GP	4 - 6
40'GP	8 - 10
40'HQ	10 - 12



Test purpose

- To understand the characteristics of your product materials
- To evaluate the protection ability against moisture and mold that different packages can provide
- To estimate the most suitable usage amount of desiccant for your products



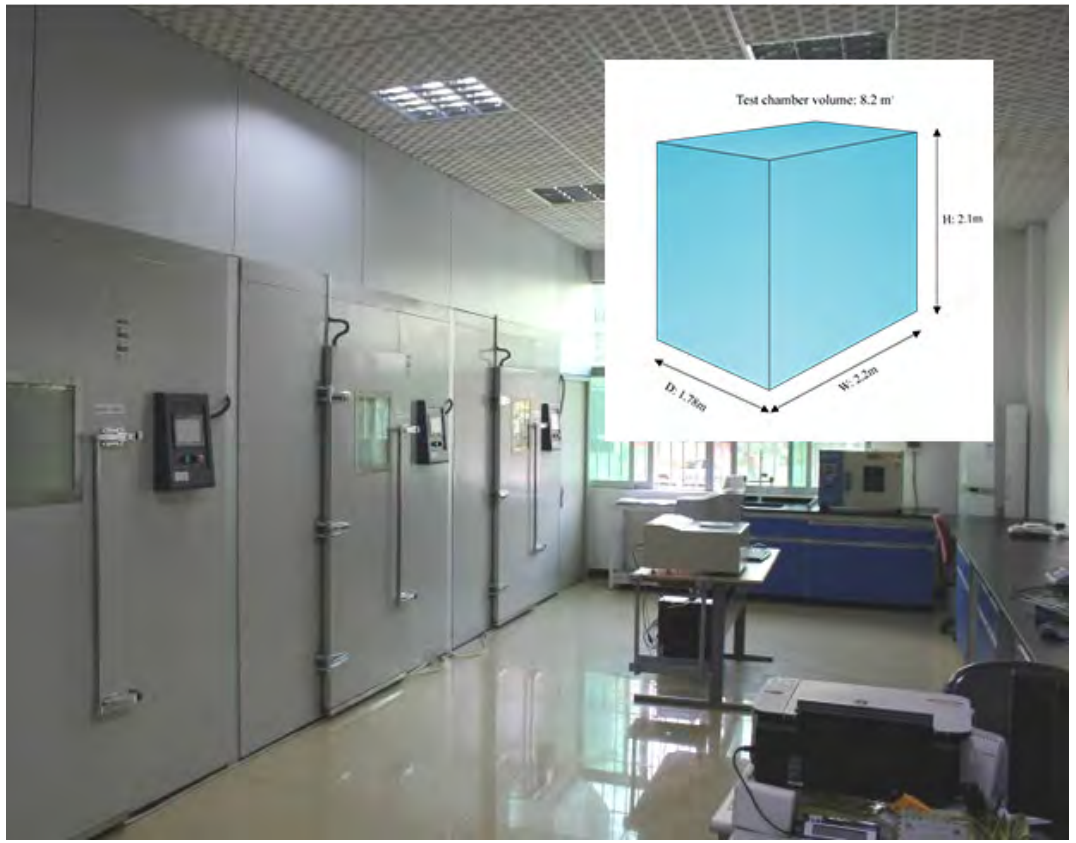


- Advanced laboratories, which can simulate container transportation environment;
- High-tech raw material quality analyzer and package material test machine.

Introduction to Test Chamber

Volume: 8.2 CBM
Working range: 0~80℃, 40%~99% relative humidity

Simulate the sea transportation process, and test the moisture absorption rate of Super Dry desiccant during the transportation.



Workshop

Our team of auditing specialist support factories in detecting moisture damage risks. We check your existing supply chain and provide you with step by step improvement plan.

Workshop

- Moisture prevention seminar
- Give a detail moisture prevention guide for your factory
- Give a detail moisture prevention guide for container loading

Super Dry Core Advantages

1. Absorbs more than 300% of its own weight
2. Active from 1st day of use effective for up to 90 days
3. Moisture is turned into gel, leakage free
4. Broad application temperature range from -5C to 90C
5. REACH registered, non toxic and DMF free
6. Fully comply with EU & US regulation
7. Global sales & customer service network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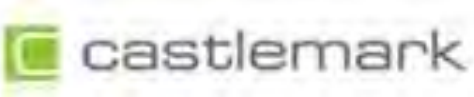
POTTERY BARN
INTERNATIONAL FURNITURE


BoConcept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