



**WISESORBENT**  
Technology



- Moisture-proof
- Oxygen removal
- Deodorant

# Active Healthcare Packaging

**ABSORB WISELY,  
REST ASSURED**

# OUR MISSION

WiseSorbent has been committed to providing moisture control packaging solutions for over 23 years. We specialize in innovative anti-moisture, oxygen removal, and deodorant packaging for pharmaceuticals, healthcare, diagnostic reagents, industrial, food, and household products.

- **WiseSorbent has served over 2000 customer companies worldwide.**
- **We have 6+ manufacturing factories and numerous warehouses globally.**
- **Our production strictly adheres to internationally recognized quality management systems, including, ISO9001, US FDA DMF, and others.**

With over 10 years of R&D experience, WiseSorbent has made significant breakthroughs in creating various forms of polymer desiccants to meet the stability requirements of sensitive products. By incorporating desiccant particles and plastic particles into our structural design, we produce films, injection-molded parts, and containers that inherently possess moisture-absorbing properties. This not only better integrates the moisture-proof solution into the product but also enhances production efficiency and reduces transportation costs, adding long-term value. WiseSorbent will continue to provide high-quality products and services for moisture control packaging solutions.

WiseSorbent's dedication is to make a positive impact on the environment through innovative practices and products. In line with sustainable development goals, we have developed a full range of recyclable, reusable, ink-free, and biodegradable desiccants. At the same time, we also focus on recycling waste packaging materials generated during production. Leveraging our innovative strengths, we have developed recyclable trays that require no time-consuming sorting. Unlike traditional recycling systems, our trays are uniquely designed to overcome the challenge of material separation. By eliminating the need for intricate sorting, these trays transform seemingly difficult-to-recycle materials into valuable resources through a simplified processing procedure. We will continue to explore new possibilities and solutions that contribute to environmental sustainability.

Driven by innovation, supported by technology, guaranteed by quality management, and guided by customer satisfaction, WiseSorbent will strive to provide the highest quality products and services.





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# WiseMini

## Ink-Free Desiccant Sachet



Laser printing



No glue



No ink transfer



Layout customizable

WiseMini ink-free Desiccant Sachet utilizes high-quality silica gel and molecular sieve to meet precise absorption specifications. Its sturdy packaging and innovative laser printing technology prevent ink migration over time, enhancing safety while minimizing environmental impact. This makes it an ideal moisture-absorbing solution for pharmaceutical applications, with product specifications ranging from 0.25g to 300g to accommodate various needs.

### SPECIFICATION:

Spec	Product Code (Silica gel \ Molecular sieve)	W*L (mm \ in)	Packaging Quantity
0.25g	ISG-0.25-ND00 \ IMS-0.25-ND00	16*30 \ 0.63*1.18	30000 \ ctn
0.5g	ISG-0.5-ND00 \ IMS-0.5-ND00	16*34 \ 0.63*1.34	20000 \ ctn
1g	ISG-1-ND00 \ IMS-1-ND00	19*42 \ 0.75*1.65	10000 \ ctn
2g	ISG-2-ND00 \ IMS-2-ND00	22*52 \ 0.87*2.05	6000 \ ctn
3g	ISG-3-ND00 \ IMS-3-ND00	26*60 \ 1.02*2.36	5000 \ ctn
5g	ISG-5-ND00 \ IMS-5-ND00	26*78 \ 1.02*3.07	3000 \ ctn
8g	ISG-8-ND00 \ IMS-8-ND00	38*85 \ 1.5*3.35	1800 \ ctn
10g	ISG-10-ND00 \ IMS-10-ND00	38*90 \ 1.5*3.54	1600 \ ctn
20g	ISG-20-ND00 \ IMS-20-ND00	57*100 \ 2.24*3.94	900 \ ctn
50g	ISG-50-ND00 \ IMS-50-ND00	78*110 \ 3.07*4.33	400 \ ctn
100g	ISG-100-ND00 \ IMS-100-ND00	98*135 \ 3.86*5.31	200 \ ctn
300g	ISG-300-ND00	150*180 \ 5.91*7.09	70 \ ctn



★ **Layout customizable**

The pattern can be customized according to customer needs.



• White silica gel



• Molecular sieve

### STANDARD:

#### SILICA GEL

Item	Standard	
Moisture content (356° F/180° C)	≤3.0%	
Moisture absorption capacity (77° F /25° C)	RH = 40%	≥19.0%
	RH = 80%	≥27.0%

#### MOLECULAR SIEVE

Item	Standard	
Moisture content (356° F/180° C)	≤14.5%	
Moisture absorption capacity (77° F /25° C)	RH = 40%	≥15.0%
	RH = 80%	≥16.5%



# WiseMini

## Ink-Free Desiccant Strip



Laser printing



No glue



No ink transfer



Layout customizable



Automation

WiseMini Ink-Free Desiccant Strip eliminates the tedious process of manual insertion which helps our customers to save on labor costs while achieving higher efficiency. Besides, its completely safe to be in physical contact with any food or medicine. Available in size from 0.25g to 3g, our supporting desiccant dispenser can dispense up to 150 desiccant bags per minute.

### SPECIFICATION:

Spec	Product Code(Silica gel\Molecular sieve)	W*L (mm\in)	Packaging Quantity
0.25g	ISG-0.25-NDS00\IMS-0.25-NDS00	16*30\0.63*1.18	18000\ctn
0.5g	ISG-0.5-NDS00\IMS-0.5-NDS00	16*34\0.63*1.34	15000\ctn
1g	ISG-1-NDS00\IMS-1-NDS00	19*42\0.75*1.65	10000\ctn
2g	ISG-2-NDS00\IMS-2-NDS00	22*52\0.87*2.05	5000\ctn
3g	ISG-3-NDS00\IMS-3-NDS00	26*60\1.02*2.36	3500\ctn

**★ Layout customizable**  
The pattern can be customized according to customer needs.

• White silica gel

• Molecular sieve

### STANDARD:

SILICA GEL		Item	Standard
		Moisture content (356°F/180°C)	≤3.0%
		Moisture absorption capacity (77°F/25°C)	RH = 40% ≥19.0%
		RH = 80%	≥27.0%

MOLECULAR SIEVE		Item	Standard
		Moisture content (356°F/180°C)	≤14.5%
		Moisture absorption capacity (77°F/25°C)	RH = 40% ≥15.0%
		RH = 80%	≥16.5%



# WiseMini

## Desiccant Deodorizer Strip



Laser printing



No glue



No ink transfer



Natural deodorization




Automation

WiseMini Desiccant Deodorizer Strip utilizes premium quality silica gel and coconut shell activated carbon which allows for a high absorption capacity for moisture and odor. WiseMini desiccant deodorizer strip is compatible with WisePac Automated strip desiccant dispenser to seamlessly adapt into production line. Using strip desiccants allows for automated cutting, improving product efficiency.



### SPECIFICATION:

Spec	Product Code	W*L (mm\in)	Packaging Quantity
0.5g	IAS-0.5-NDS00	16*40\0.63*1.57	12000\ctn
1g	IAS-1-NDS00	22*45\0.87*1.77	8000\ctn
2g	IAS-2-NDS00	26*55\1.02*2.17	3000\ctn
3g	IAS-3-NDS00	26*70\1.02*2.76	2000\ctn
5g	IAS-5-NDS00	38*70\1.50*2.76	1500\ctn



★ **Natural deodorization**

Contains natural coconut shell activated carbon and silica gel desiccant, which eliminates both odor and moisture

● Natural coconut shell activated carbon&silica gel

### STANDARD:

Item	Standard
Loss on Drying (302°F/150°C)	≤5.0%
Moisture absorption capacity (77°F/25°C)	RH = 40%
	RH = 80%
Carbon Tetrachloride Adsorption	≥24.5%
	≥30.0%



# WiseMini

## Humidity Control Sachet



Laser printing



No glue



No ink transfer



Control humidity

WiseMini Humidity Control Sachet utilizes silica gel as the main component and controls the humidity rate inside a package at a certain range. It desiccates when the humidity rate in the package is higher than it needs to be and humidifies when it is lower than it needs to be. This product applies to medicines that need strict humidity rate control by stabilizing the humidity rate inside the package.

### SPECIFICATION:

Spec	Product Code	W*L (mm\in)	Packaging Quantity
1g	IMC-1-TG00	19*42\0.75*1.65	10000\ctn
2g	IMC-2-TG00	22*51.5\0.87*2.03	6000\ctn
3g	IMC-3-TG00	26*60\1.02*2.36	5000\ctn



**★ Humidity control**

Applicable to the medicines that require a certain humidity rate.



● Stable humidity rate inside the package



● White silica gel

### STANDARD:

Item	Standard
Moisture absorption capacity (77°F /25°C)	±5.0% nominal humidity control capacity
Balance Time	≤24h







# WiseCan I

## Desiccant Capsule



Stable hygroscopicity



The shell is leak-proof



Material Safety



Strong and crack-resistant

WiseCan Desiccant Capsule is able to be placed underneath a product's lid or within the product packaging itself. It can rapidly absorb moisture thanks to its roll edge design. Overall, it is a great alternative to traditional desiccant bags. It has crack resistant shell and compact design, and is a great product for any pharmaceutical, OTC or diagnostic reagent product needing protection from the effects of humidity.

### SPECIFICATION:

Spec	Product Code	W*L (mm\in)	Packaging Quantity
0.5g	60S-0.5-PLI00	Φ30.6*10.5\Φ1.20*0.41	12000\ctn
1g	60S-1-PLI00	Φ18.1*11.0\Φ0.71*0.43	8000\ctn
2g	60S-2-PLI00	Φ24.8*11.0\Φ0.98*0.43	4500\ctn
3g	60S-3-PLI00	Φ30.6*10.5\Φ1.20*0.41	3000\ctn
30g	60S-30-PLI00	Φ63.0*18.5\Φ2.48*0.73	450\ctn

**★ Color changed after absorption**  
Cobalt free indicator silica gel. The color changes from orange to white after absorbing moisture.

● Orange silica gel

### STANDARD:

Item	Standard
Loss on Drying (302°F/150°C)	≤3.0%
Moisture absorption capacity (77°F/25°C)	RH = 20%
	RH = 50%
	≥8.0%
	≥20.0%





# WiseCan II

## Desiccant Canister



Stable hygroscopicity



Laser engraving



Use with wisepac



Strong and crack-resistant

WiseCan Desiccant Canister is a cover style desiccant canister. The canisters are unique desiccant products with a mesh plastic lid and bottom. Silica gel is utilized as its adsorbent and its beveled edge prevents it from opening even under pressure.

### SPECIFICATION:

Spec	Product Code	W*L (mm\in)	Packaging Quantity
1g	6SG-1-PLI100	Φ18.0*14.0\Φ0.71*0.55	8000\ctn
2g	6SG-2-PLI100	Φ19.5*14.5\Φ0.77*0.57	5000\ctn
3g	6SG-3-PLI100	Φ19.5*24.5\Φ0.77*0.96	3000\ctn



★ **Laser printing**

Save & Ink free. Environmentally friendly.



• White silica gel



• Top mesh structure



### STANDARD:

Item	Standard
Loss on Drying (356°F/180°C)	≤3.0%
Moisture absorption capacity (77°F/25°C)	RH = 40%
	RH = 80%
	≥19.0%
	≥27.0%

# WiseMop

## Liquids Absorber



Strong water absorption



Water soluble packaging



Absorb water quickly



Become solid after absorption

Used in hospitals, laboratories, nursing/elder care and other scenarios to quickly absorb/fix leaking liquids and prevent liquid contamination. It can absorb liquids within 1 min. After absorption, gel formation is easily to be collected and discard.

### SPECIFICATION:

Spec	Product Code	W*L (mm\in)	Packaging Quantity
1g	2SP-1-SR00	25*42\0.98*1.65	10000\ctn
2g	2SP-2-SR00	25*52\0.98*2.05	6000\ctn
3g	2SP-3-SR00	35*55\1.38*2.17	5000\ctn
5g	2SP-5-SR00	35*65\1.38*2.56	3000\ctn



#### ● Strong water absorption

Can absorb up to 350 times its own weight of distilled water, more than 40 times its own weight of normal saline.

### STANDARD:

Item	Standard
Loss on Drying (221°F/105°C)	≤5.0%
Water absorption capacity	350-450g/g
Absorption capacity for 0.9% NaCl solution	40-45g/g
Absorption speed for the entire sachet	≤35s





# WiseTab

## Molecular Sieve Desiccant Tablet



High safety



High absorbent

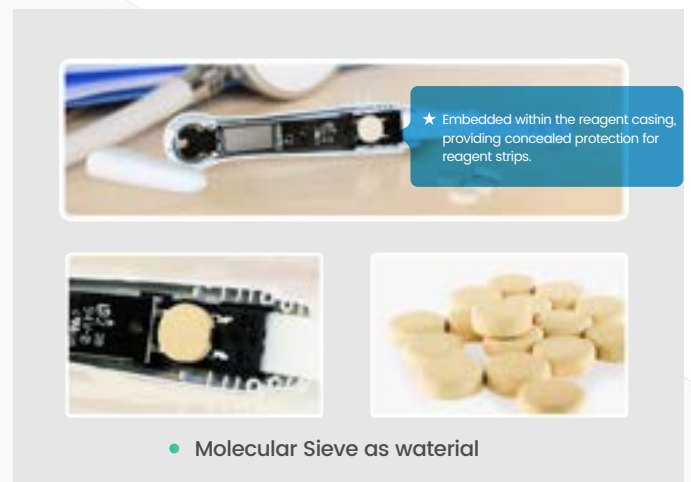


Sizes can be customized

WiseTab Molecular Sieve Desiccant Tablet achieves a high absorption capacity under low humidity rate: capable of controlling the humidity rate in medical packages under RH 10%, which can effectively extend shelf life of test strips that are sensitive to humidity.

### SPECIFICATION:

Product Code	W*L (mm\in)	Thickness (mm\in)	Product Grammage (g\oz)	Packaging Quantity
TBM170841	(8.00) × (17.45) \ (0.31) × (0.69)	4.15 \ 0.16	0.53 \ 0.02	12000\ctn
TBM1031	Φ10.00\Φ0.4	3.17 \ 0.12	0.25 \ 0.009	20000\ctn
TBM1047		4.7 \ 0.19	0.425 \ 0.015	16000\ctn
TBM1055		5.5 \ 0.22	0.53 \ 0.02	14000\ctn
TBM1070		7 \ 0.28	0.68 \ 0.024	10000\ctn
TBM1131	Φ11.35\Φ0.45	3.17 \ 0.12	0.37 \ 0.01	16000\ctn
TBM1140		4.05 \ 0.16	0.47 \ 0.017	12000\ctn
TBM1148	4.8 \ 0.19	0.53 \ 0.02	10000\ctn	
TBM1170	7 \ 0.28	0.88 \ 0.03	8000\ctn	
TBM1133	3.3 \ 0.13	0.39 \ 0.013	14000\ctn	



### STANDARD:

Item	Standard	
Loss on drying (1067±77°F/575±25°C)	≤3.0%	
Moisture absorption capacity (77°F/25°C)	RH = 20%	≥15.0%
	RH = 40%	≥18.0%
	RH = 80%	≥20.0%
Moisture absorption speed	≥10.0%/24h	
Dust	≤0.3mg/g	

# WiseFlex

## Desiccant Film



Can be made



Desiccant Particles

WiseSorbent has introduced self-moisture-absorbing polymer particles that can be processed into various films, injection-molded or blow-molded parts, or sheet products to meet the needs of moisture sensitive product with high packaging requirements.

The primary absorbent material in WiseFlex is molecular sieve. WiseFlex uses moisture-absorbing polymer particles to create functional films with moisture-absorbing capabilities through the blown film process. This film has uniform and dense moisture-absorbing pores that can evenly absorb water molecules. When this film is laminated with other films such as aluminum, PET, or PE, it can effectively reduce the moisture content in the packaging environment, inhibit oxygen reactions, and thus ensure continuous dryness inside the packaging, protecting the stability of the packaged products.

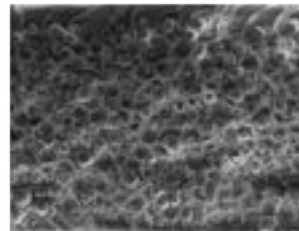
## CHARACTERISTICS

### Selectable & Controllable Moisture Absorption Effect

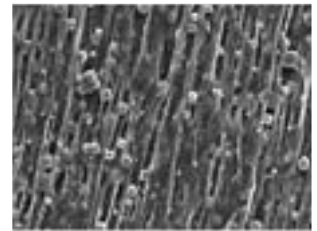
\*The moisture absorption rate of the desiccant layer is influenced by thickness and composition variations. Under identical environmental conditions (25°C, 40%RH):

Thickness	Moisture absorption rate
60 μm	≥ 4.0g/m <sup>2</sup> \ 0.12oz/yd <sup>2</sup>
80 μm	≥ 6.0g/m <sup>2</sup> \ 0.18oz/yd <sup>2</sup>
110 μm	≥ 8.0g/m <sup>2</sup> \ 0.24oz/yd <sup>2</sup>

### Uniform and Fine Moisture-Absorbing Pore Distribution



Vertical View



Horizontal View





# WiseFlex+

## Aluminum Desiccant Film



High barrier to block moisture and oxygen.



Excellent moisture absorption and humidity control capacity.



Flexible choices of materials and structures.



Good printability, available in digital printing and ink printing.

### STANDARD STRUCTURE:



- PET12um
- AL12um
- DES60um

Can be choose from:

- Glossy
- Matte
- Soft touch

<b>Moisture absorption capacity</b> (25°C, RH40%) (g/m <sup>2</sup> \oz/yd <sup>2</sup> )	≥4.0\0.12
<b>Water vapor transmission rate</b> (38°C, RH90%) (g/(m <sup>2</sup> \24h))	≤0.020
<b>Oxygen transmission rate</b> (23±2°C) (cm <sup>3</sup> /(m <sup>2</sup> \24h\0.1Mpa))	≤0.015

WiseFlex+ aluminum desiccant film is a high-barrier film with an excellent active barrier to effectively block moisture and oxygen. The desiccant layer inside adsorbs moisture, effectively delaying the oxidation time of the product. WiseFlex+ ensures the product's aesthetic appearance while meeting and exceeding protection requirements.

WiseFlex+ offers a variety of composite materials, including PET as the outer layer. The thickness of the aluminum layer can be adjusted according to requirements.

The desiccant layer is available in standard structures:



<b>Moisture absorption capacity</b> (25°C, RH40%) (g/m <sup>2</sup> \oz/yd <sup>2</sup> )
≥6.0\0.18



<b>Moisture absorption capacity</b> (25°C, RH40%) (g/m <sup>2</sup> \oz/yd <sup>2</sup> )
≥8.0\0.24





# WiseFlex+

## Monomer Structure Recyclable Desiccant Film



Made with simple component, fully recyclable as PE.



Self moisture absorption function, control the humidity rate under 5%.

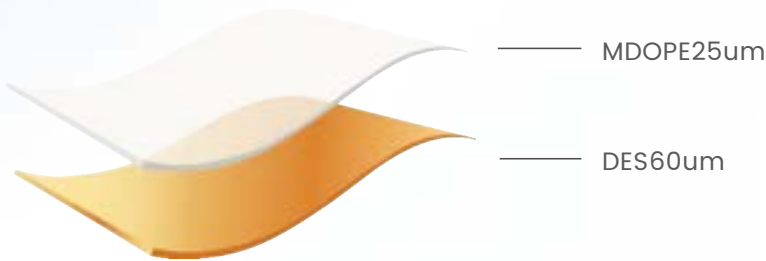


Hit-sealable, avoid adhesives, environmentally friendly.



Can be made to pouches and laminate with other type of film.

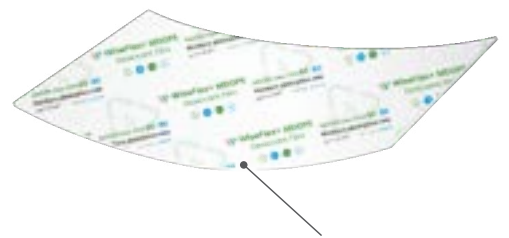
### STANDARD STRUCTURE:



Moisture absorption capacity (25°C, RH40%)(g/m <sup>2</sup> \oz/yd <sup>2</sup> )
≥4.0\0.12

WiseFlex+ Monomer Structure Recyclable Desiccant Film is an environmentally friendly functional film primarily made of PE, capable of being recycled as plastic. The film features a dual-layer composite structure of MDOPE and desiccant film, which enhances dehumidification and protection, ensuring the packaged products remain unaffected by moisture and maintain stable dryness.

As the desiccant film absorbs moisture, its color changes from milky white to translucent, allowing for easy monitoring of its moisture-absorbing status. This recyclable desiccant film is suitable for packaging a variety of moisture-sensitive products, such as pills and powdered health supplements.



After absorb moisture Color changes from milky to translucent.





# Recyclable Desiccant Film



Primary component is PP, recyclable structure.



Excellent moisture and oxygen barrier properties.

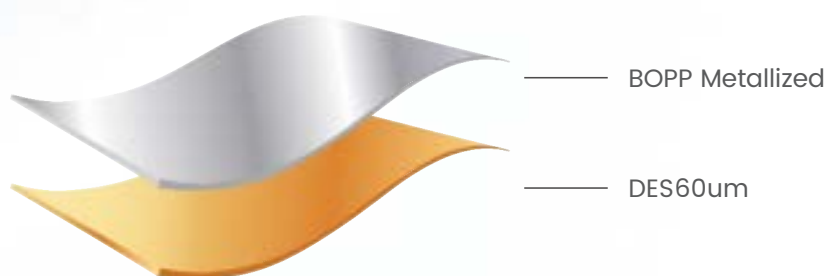


Metallized layer blocks light effectively.



Self-moisture absorption capability controls humidity extends product shelf life.

## STANDARD STRUCTURE:



## Can be choose from:

- Glossy
- Matte
- Soft touch

WiseFlex+ Recyclable Desiccant Film is a composite functional film primarily made from PP. To enhance light blocking, a small amount of metallization is applied, which does not affect recyclability. The desiccant layer provides self-moisture absorption, effectively controlling humidity and protecting the packaged products from moisture damage, thereby extending shelf life.

The thickness of both the BOPP metallized layer and the desiccant film layer can be adjusted as needed to meet various moisture control requirements.

### Moisture absorption capacity

(25°C, RH40%) (g/m<sup>2</sup>/oz/yd<sup>2</sup>)

≥4.0\0.12





# WisePouch+

## Desiccant Pouch/ Aluminum Desiccant Pouch



Excellent moisture absorption and moisture resistance ability.



Maintain product quality, effectively extending product shelf life.



A multi-layer structure with strong puncture resistance.



No need for desiccant dispensing during production, improves efficiency.



Digital printing and ink printing are available.

WisePouch+ is a functional pre-made pouch made of WiseFlex+ film series. The aluminum pouch with a desiccant layer can absorb and control moisture inside the pouch, effectively extending the shelf life of the product in limited space.

WisePouch+ pouches are suitable for various scenarios and can be made into different types of pouches according to different needs. Fin seal, three-sided seal, stand-up pouches, and ton bags can all be made with WisePouch+. Using WisePouch+ eliminates the need to add desiccant sachets, saving space in packaging and improving production efficiency.

### SPECIFICATION:

**Take Standard Structure of WisePouch+ (PET12/Alu12/Des60um) as Example**

Thickness (um\mil)	85±8\3.346±0.315
Grammage (g/m²\oz/yd²)	115.0±10.0\3.3928±0.2950
Length (mm\in)	Customizable
Width (mm\in)	Customizable
Binding Width (mm\in)	Customizable
Printing	Available in digital or ink printing
Pouch Type	Provide with different shapes: 3 side seal pouches, stick pack, etc.
Moisture Adsorption Capacity (25°C, RH40%) (g/m²\oz/yd²)	>4.0\0.14
Hot tack strength (N/15mm\lb/in)	>6.0\2.25
Peel strength (N/15mm\lb/in)	>6.0\2.25
Water vapor transmission rate (38°C, RH90%) (g/(m²·24h))	<0.015
Oxygen transmission rate (23±2°C)(cm³/(m²·24h·0.1Mpa))	<0.015

### Shapes to choose:



Stick pack



Four side seal pouch



Four side seal pouch with zipper



Stand-up bag



Stand-up bag with zipper

More to customize...



# WiseForm+

## Cold-Formed Blister Aluminum Desiccant Film



Strong moisture and oxygen resistance performance.



Effectively blocking water vapor, oxygen, and lights.



Prevent drugs from dampening and extend shelf life.

### STANDARD STRUCTURE:

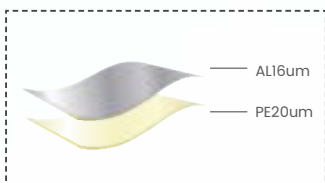
The desiccant layer is available in standard structures:



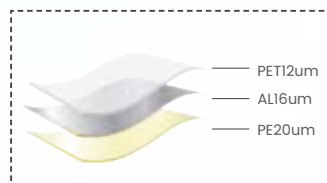
<b>Moisture absorption capacity</b> (25°C, RH60%) (g/m <sup>2</sup> \oz/yd <sup>2</sup> )	≥4.0\0.12	≥6.0\0.18	≥8.0\0.24
<b>Water vapor transmission rate</b> (38°C, RH90%) (g/(m <sup>2</sup> ·24h))	≤0.020	≤0.020	≤0.020
<b>Oxygen transmission rate</b> (23±2°C) (cm <sup>3</sup> /(m <sup>2</sup> ·24h·0.1Mpa))	≤0.015	≤0.015	≤0.015

WiseForm+ Cold-formed blister aluminum desiccant film. is a new moisture-proof packaging solution developed by WiseNano for tablets, capsules, small instruments, and similar products. Building upon standard cold-formed blister packs, WiseForm+ integrates an additional layer of desiccant film. This desiccant film contains desiccant particles that not only effectively absorb moisture within the blister pack but also mitigate moisture diffusion at the edges of the blister, thereby enhancing the durability of the packaging. It provides comprehensive moisture protection for sensitive products, ensuring long-term stability and quality of the packaged products.

### WiseLid Seal Foil:



### Child-resistant Structure:



WiseForm+ is used in conjunction with WiseLid seal foil or child-resistant seal foil for a more secure seal. WiseForm+ and WiseLid are combined products, and currently, WiseForm+ standard products are not sold separately.

**\*If you have questions or special needs, please contact your local sales for more information.**



# WiseForm+

## Thermoforming Blister Aluminum Desiccant Film



Strong moisture and oxygen resistance performance.



Effectively blocking water vapor, oxygen, and lights.

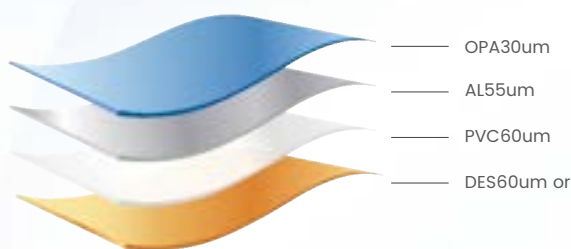


Prevent drugs from damping and extend shelf life.



Higher puncture resistance with a layers structure.

### STANDARD STRUCTURE:

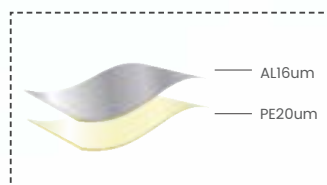


The desiccant layer is available in standard structures:

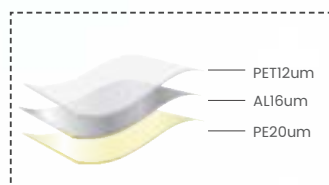
DES80um	<b>Moisture absorption capacity</b> (25°C, RH60%)(g/m <sup>2</sup> \oz/yd <sup>2</sup> )	≥4.0\0.12	≥6.0\0.18	≥8.0\0.24
	<b>Water vapor transmission rate</b> (38°C, RH90%)(g/(m <sup>2</sup> ·24h))	≤0.020	≤0.020	≤0.020
DES110um	<b>Oxygen transmission rate</b> (23±2°C)(cm <sup>3</sup> /(m <sup>2</sup> ·24h·0.1Mpa))	≤0.015	≤0.015	≤0.015

WiseForm+ thermoforming blister aluminum desiccant film is a new moisture-proof packaging solution developed for large-sized tablets, capsules, small instruments, and similar products. WiseForm+ enhances blister toughness using thermal pressing technology and an added PVC layer to prevent issues such as breakage and puncture. The WiseForm+ also includes a desiccant layer, effectively absorbing moisture inside the blister or potential moisture diffusion at the edges, thereby improving packaging durability and providing comprehensive moisture protection for sensitive products, ensuring long-term quality stability of packaged products.

### WiseLid Seal Foil:



### Child-resistant Structure:



WiseForm+ is used in conjunction with WiseLid seal foil or child-resistant seal foil for a more secure seal. WiseForm+ and WiseLid are combined products, and currently, WiseForm+ standard products are not sold separately.

**\*If you have questions or special needs, please contact your local sales for more information.**



# WiseLid+

## Desiccant Seal Foil



CR (Child Resistant) feature by adding a PET layer.



High moisture absorption performance can prevent drugs from being affected by moisture and prolong shelf life.

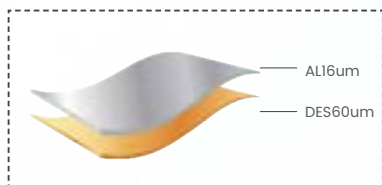


Customizable printing.

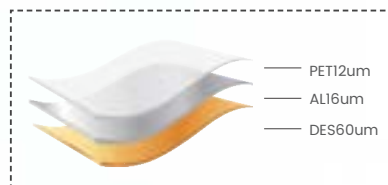
Tablets, capsules, and other sensitive medications are highly susceptible to environmental factors. Fluctuations in temperature and moisture infiltration into packaging are serious concerns that can compromise the quality and efficacy of drugs. To better protect drug quality, ensure stability, and extend shelf life, WiseNano has introduced WiseLid+ Desiccant seal foil.

WiseLid+ features a dual-layer structure combining aluminum and desiccant films. This design provides robust moisture barrier and absorption capabilities, effectively preventing external moisture from infiltrating drug packaging and providing comprehensive protection for medications. The high moisture absorption performance of the moisture-absorbing film in WiseLid+ ensures sustained moisture absorption, stabilizing the internal environment of drug packaging and preventing moisture damage. Additionally, the moisture-absorbing lid film absorbs moisture uniformly, effectively preventing potential moisture diffusion from the edges of the lid.

**WiseLid Seal Foil:**



**Child-resistant Structure:**



<b>Moisture absorption capacity</b> (25°C, RH60%) (g/m <sup>2</sup> ·oz/yr <sup>2</sup> )	≥4.0\0.12
<b>Water vapor transmission rate</b> (38°C, RH90%) (g/(m <sup>2</sup> ·24h))	≤0.010
<b>Oxygen transmission rate</b> (23±2°C) (cm <sup>3</sup> /(m <sup>2</sup> ·24h·0.1Mpa))	≤0.020

WiseLid+ can be used with automatic packaging machines for convenient and fast production. WiseLid+ features Child-Resistant (CR) structures, and its PET layer is resistant to penetration.

**WiseForm Transparent Blister:**



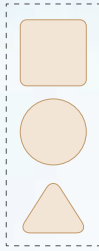
WiseSorbent offers a combination product of WiseForm transparent blister and WiseLid+.

**\* For inquiries or specific requirements, please contact your local sales representative for more information.**





Any shape



# WiseSheet

## Polymer Desiccant Sheet



Powerful moisture absorption ability, able to extend product shelf life.



The flake appearance is small and thin, saving the internal space of the package.



Free arbitrary shape die-cutting, high matching various packaging possibilities. Laser printing is available.



It can be either **hot-sealed** or **pasted** on the inner wall of the package, preventing accidental ingestion.



Can provide various forms such as **as in-tape reels, single sheets, self-adhesive, or not adhesive, etc.**, which are suitable for various delivery scenarios and are convenient and fast.

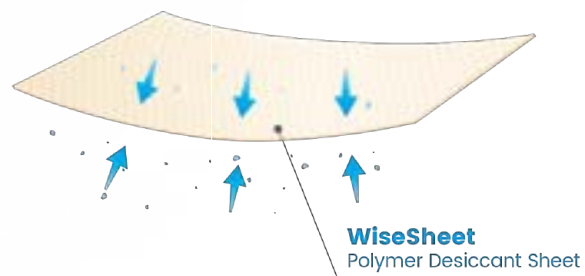
WiseSheet polymer desiccant sheets are made from functional polymer particles. This sheet material, capable of absorbing moisture in limited packaging space, can address the issue of product instability due to moisture invasion. This technology facilitates controlling the moisture content inside the package at a relatively low level for a long period. Additionally, this innovative desiccant product emphasizes the compactness and aesthetics of product packaging.

The sheet-like design is more suitable for the shape requirements of flexible packaging, reducing its presence as a desiccant, meeting the tactile impression and visual effects of product packaging.



### SPECIFICATION:

Product Name	WiseSheet 0.3	WiseSheet 0.6	WiseSheet 0.8	WiseSheet 10	
Thickness (mm)	0.30±0.03	0.60±0.06	0.80±0.08	0.80±0.08	
Grammage (g/m <sup>2</sup> )	375.0±25.0	750.0±50.0	950.0±80.0	1200.0±100.0	
Thickness (mm)	≤1.0				
Moisture Absorption (g/m <sup>2</sup> ) (25°C, RH=40%)	≥45	≥90	≥110	≥140	
Humidity Control (25°C)	≤RH10%				
Humidity Control Speed	≤24H				
Tensile Strength (N/mm)	Horizontal	≥3.0	≥4.0	≥5.0	≥6.0
	Vertical	≥3.0	≥4.0	≥5.0	≥6.0



# WisePoly

## Polymer Desiccant



-  Consistent absorption, long-lasting moisture absorption.
-  Unlimited shapes, customizable. Laser printing is available.
-  Better integration with the product.
-  Dust-free, lightweight, and aesthetic.
-  Delivery can be installed automatically, fast, and conveniently.

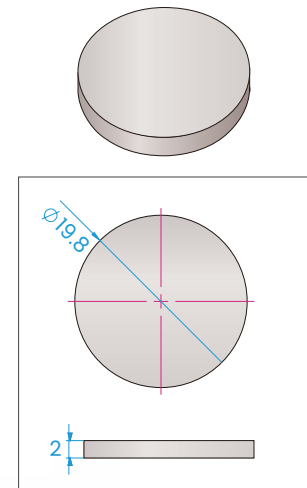
WisePoly's technology uses a blend of polymer and desiccant particles that are injection molded or hot pressed resulting in excellent moisture absorption properties. Desiccant particles can slowly and continuously absorb moisture in the package and reduce oxygen activity.

After precise treatment with nanotechnology, the proportion of desiccant content in WisePoly can reach up to 60%. WisePoly controls the humidity rate inside the package to maintain the stability of product quality and meet the needs for the long-term preservation of products.

### SPECIFICATION:

Take a cylindrical polymer desiccant as an example:

Diameter (mm)	19.80±0.10	
Thickness (mm)	2.00±0.05	
Weight (g)	0.785±0.010	
Moisture Content (105 °C)	≤0.5%	
Saturated Moisture Absorption Capacity (25 °C)	RH50%	≥9.0%
	RH90%	≥14.0%
Moisture Absorption Rate (25°C , in 24h)	RH80%	≥0.9%



# WiseTube

## Tube with TE Desiccant Stopper

WiseTube Desiccant Tube is made of high strength PP. The cap contains desiccant, which can protect the product from moisture and prolong its service life. Two types of absorbent to choose. The tube has four standard sizes and also can be customized in different sizes.



Product Safety No air entering Standard size Crack resistant PP



White



Black



Translucent orange



Cylinder cover

Molecular sieve

Fiber paper (ventilate)



Breathable fiber paper desiccant cap



Molecular sieve

### STANDARD:

Item	Standard
Loss on Drying (1067±77°F/575±25°C)	≤4.5%
Adsorbent Moisture Capacity (77° F/25°C)	RH=40±5% ≥15.0%
	RH=80±5% ≥16.5%

### SPECIFICATION:

Product Code	Dia*H (mm\in)	Body Color	Packaging Quantity
8MS\SGDS001A - W\B\TO	φ33×48.3\φ1.3*1.9	White\Black\Translucent Orange	2200\ctn
8MS\SGDS002A - W\B\TO	φ33×63.5\φ1.3*2.5	White\Black\Translucent Orange	1500\ctn
8MS\SGDS003A - W\B\TO	φ33×95\φ1.3*3.74	White\Black\Translucent Orange	1200\ctn
8MS\SGDS004A - W\B\TO	φ33×124.2\φ1.3*4.89	White\Black\Translucent Orange	900\ctn

# WiseTube

## TE Screw-cap desiccant tube

Moisture is no longer a concern with WiseTube. Say goodbye to the hassle of adding desiccants and the fear of leakage. The WiseTube boasts an innovative inner wall with built-in moisture absorption capabilities. This groundbreaking feature not only eliminates the need for additional desiccants but also guarantees leak-free protection, ensuring your products remain dry and intact. The sleek design not only exudes elegance but also conceals the moisture absorption mechanism, providing a seamless and aesthetically pleasing solution without worries about airtightness.



Enhanced aesthetics



Leak-Free assurance



Raise productivity



Customizable



50\*83mm  
112ml

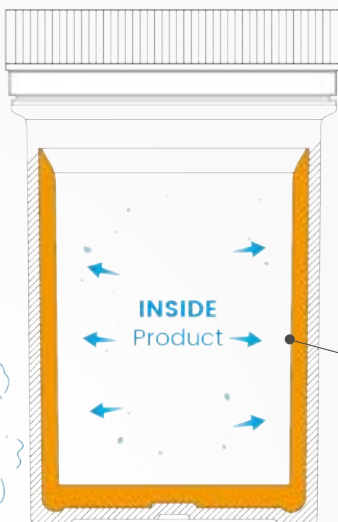


\*Tube size and design are also customizable.



\*Tube cap and body colors are customizable.

**OUTSIDE**  
Moisture / Oxygen



Desiccant Layer



• Whole tube body absorption  
Good moisture-proof effect



• Desiccant particle material

### SPECIFICATION:

Take 50*83mm as example	
Tube Outer Diameter (mm\in)	56.0±1.0\2.205±0.039
Height (mm\in)	83.0±1.0\3.268±0.039
Tube Inner Diameter (mm\in)	44.0±1.0\1.713±0.039
Tube Inside Height (mm\in)	78.0±1.0\3.071±0.039
Grammage (g/pcs.\oz/pcs.)	48.00±1.5\1.694±0.053
Desiccant Layer Weight (g/pcs.\oz/pcs.)	21.25±1.50\0.759±0.035
Moisture Adsorption Capacity (g/pcs.\oz/pcs.)	>2.50\0.088



# WiseVial

## Snap-cap desiccant vial

WiseVial Snap-cap Desiccant Vial is a functional vial that integrates desiccant particles and plastic particles into the inner wall of the vial, giving the vial body moisture absorption and moisture resistance ability. WiseVial maximizes moisture protection within a limited space, allowing moisture absorption and drying effects to be better and more uniform. Plus, it can still be tightly sealed after repeated opening and closing, without worries about airtightness.



Bottle wall desiccant



Good moisture absorption capacity



Raise Productivity



Customizable



24\*97mm  
10ml



33\*56mm  
20ml



33\*76mm  
30ml



33\*98mm  
40ml

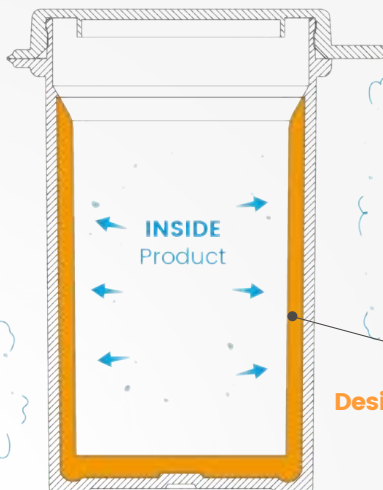


43\*125mm  
100ml



51\*114.6mm  
150ml

**OUTSIDE**  
Moisture / Oxygen



**Desiccant Layer**



• Whole vial body absorption  
Good moisture-proof effect



• Color and size can be customized



### SPECIFICATION:

Take 33\*56mm as example

Vial Outer Diameter (mm\in)	33.0±1.0\1.299±0.039
Height (mm\in)	56.0±1.0\2.205±0.039
Vial Inner Diameter (mm\in)	24.0±1.0\0.945±0.039
Vial Inside Height (mm\in)	50.0±1.0\1.969±0.039
Grammage (g/pcs.\oz/pcs.)	17.50±1.0\0.618±0.035
Desiccant Layer Weight (g/pcs.\oz/pcs.)	8.00± 0.50\0.282±0.018
Moisture Adsorption Capacity (g/pcs.\oz/pcs.)	≥0.90\0.032

# WiseVial

## Snap-cap vial with desiccant capsule

WiseVial Snap-cap vial with desiccant capsule is designed to conveniently pack the right amount of medications, prescriptions, and test strips. The vial lid features a built-in compartment filled with a non-toxic, cobalt-free silica gel capsule with powerful moisture absorption capacity. The desiccant capsule changes color as it absorbs moisture, starting to change at 20% relative humidity. This allows customers to monitor the internal humidity even after opening the vial. The desiccant capsule is replaceable, and the vial color and sizes can be customized.



Embedded desiccant capsule



Good moisture absorption capacity



Moisture-Visible



Customizable



33\*56mm  
20ml



33\*76mm  
30ml



33\*98mm  
40ml



Desiccant Capsules



• Cylinder cover embedded with desiccant Removable replacement



• Color and size can be customized

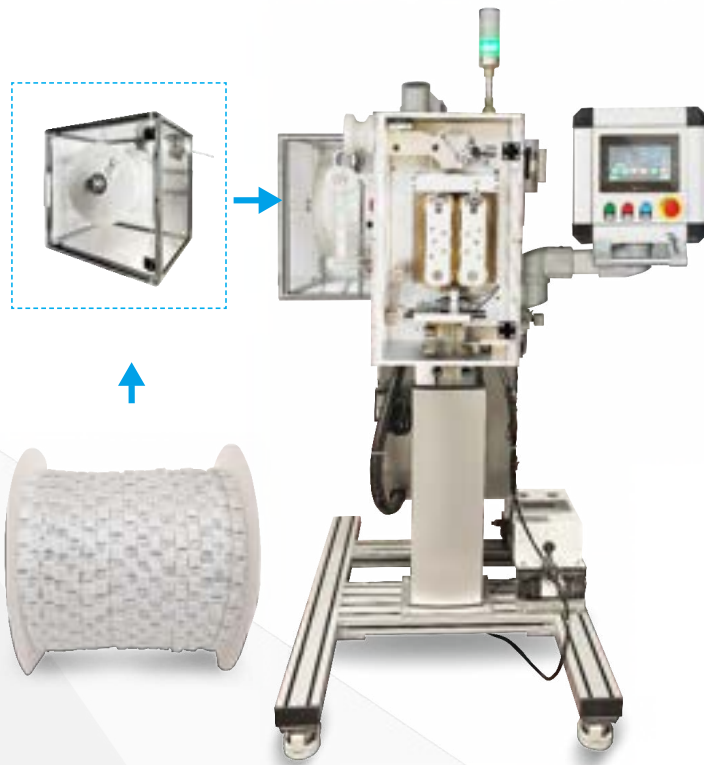
### SPECIFICATION:

Take 33*56mm as example	
Outer Diameter (mm\in)	22.0±0.5\0.866±0.020
Height (mm\in)	12.0±0.5\0.492±0.020
Grammage (g\pcs.\oz\pcs.)	2.80±0.30\0.099±0.011
Sorbent Grammage (g\pcs.\oz\pcs.)	1.60±0.20\0.056±0.007
Loss on drying (150°C) (%)	≤ 3.0
Moisture Adsorption capacity (25°C, RH40%)	≥ 19.0%
Moisture Adsorption capacity (25°C, RH80%)	≥ 27.0%

# WisePac

## Automated Strip Desiccant Dispenser

WisePac Automated strip desiccant dispenser is applicable for bottling packaging lines and works seamlessly with our WiseMini Strip Desiccant. Automated and accurate dispensing save labor costs and improve production safety and efficiency. A multi-detection system to make sure dispensing is accurate and precise and can be integrated into a streamlined packaging line. And our newly improved structure saves more space.



### SPECIFICATION:

Name	WisePac Automated Cutting & Dispensing Machine
MODEL	WSQJ-04V-01
Dispensing Desiccant Grammage	0.5g/lg
Max.Dispensing Speed	140 sachets/min
Power	220V IAC+N_PE 50Hz
Air Pressure	0.4-0.5Mpa
Net Weight	210kg/463lb
Dimension (mm)	L1440*W1060*H1590 mm/L56.7inch*W41.74inch*H62.6inch

# WisePac

## Canister Dispenser

WisePac canister dispensing machine integrates seamlessly with bottling packaging line and works perfectly with WiseCan canister for automated and accurate dispensing which saves labor cost and is efficient and cost effective.

### SPECIFICATION:


Name	Canister Dispenser
MODEL	SHXYZFJ-01
Max.Dispensing Speed	180 Canisters/min
Power	220V 50/60Hz 1KW
Air Consumption	600 L/min
Air Pressure	0.45-0.65 MPa
Net Weight	580lbs / 260kg
Dimension (mm)	1433W*1880D*2360H (including Elevator Feeder & Canister Storage Bin)





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