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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.



CONTENTS

- | | | | |
|------------|---|------------|--|
| 01. | Calcium Chloride Desiccant | 08. | Non-Indicating Silica Gel Packets (White) |
| 02. | Magnesium Chloride Desiccants | 09. | Indicating Silica Gel Packets (Orange & White Mixed) |
| 03. | Blue Silica Gel Beads | 10. | Montmorillonite Clay Desiccant |
| 04. | Orange Silica Gel Beads | 11. | Mineral Clay Desiccant |
| 05. | White Silica Gel Beads | 12. | Container Desiccants |
| 06. | Indicating Silica Gel Packets (Blue to Pink) | 13. | Flower Drying Crystals |
| 07. | Indicating Silica Gel Packets (Orange to Green) | | |

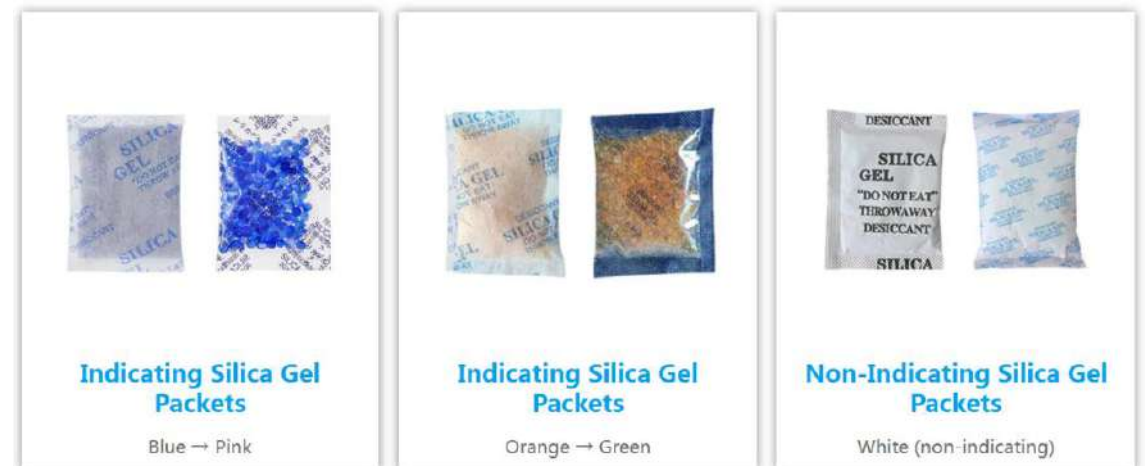
Silica Gel Packets

SORBSTAR silica gel packets are compact, efficient, and eco-friendly desiccant sachets designed to control moisture, prevent mold growth, and extend product shelf life. Made from non-toxic, highly porous silica gel beads (SiO_2), our desiccant packs effectively absorb excess humidity in sealed environments. They work by adsorbing and trapping moisture from the air, which lowers relative humidity and prevents the formation of mould, condensation & rust.

Silica gel packets are suitable for safeguarding everything from electronics to food, pharmaceuticals, and leather goods.

Available in three functional types—**white(non-indicating)**, **blue indicating**, and **orange indicating**—our desiccant packets are designed for different levels of visibility, compliance, and humidity monitoring. All are available in custom sizes, printing, and packaging materials.

All our desiccants are **tested and certified** to meet global export standards, Our silica gel 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.





Blue Indicating Silica Gel Packets

(1-3mm,2-4mm,3-5mm) Available

Item	Description
Color Change Indicator	Blue when dry, Pink when saturated
Non-corrosive & Dust-Free	Packaged in safe, sealed sachets
High Absorption Capacity	Absorbs up to 30–40% of its weight in water vapor
Reusable	Can be reactivated by heating in an oven (110–120°C)
Packaging Material Features	Good breathability, anti-dust, strong seal strength
Multiple Packaging Options	Non-woven fabric, composite paper, Tyvek® Paper,Dulai Paper, customizable
Transport Packaging	Carton

SORBSTAR blue indicating silica gel packets are highly effective desiccants and deliver **superior moisture absorption** performance. It is designed to protect your products from moisture damage during storage and shipping.

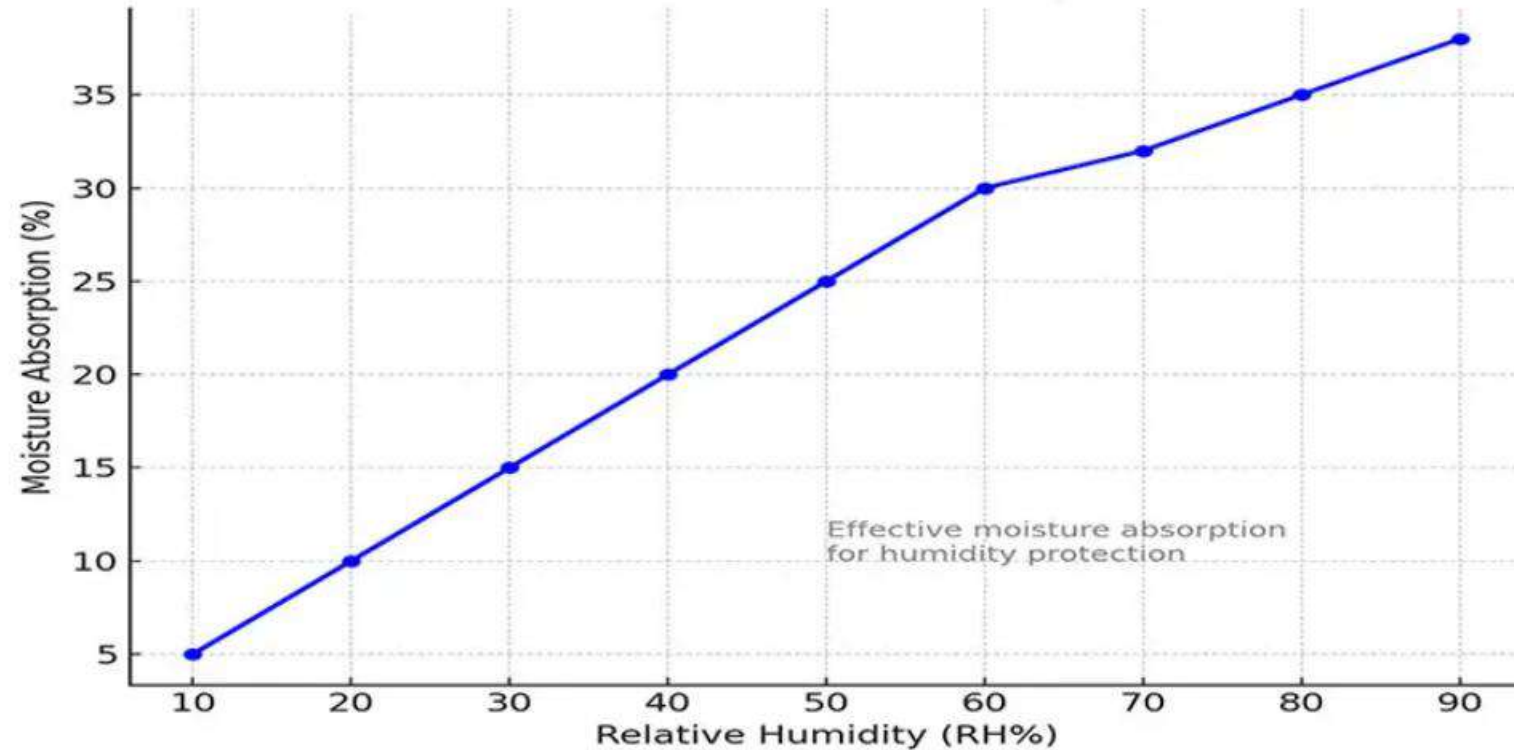
It is made from **100% premium-grade virgin silica gel** formulated with a cobalt chloride indicator and packaged in resealable moisture barrier bag.

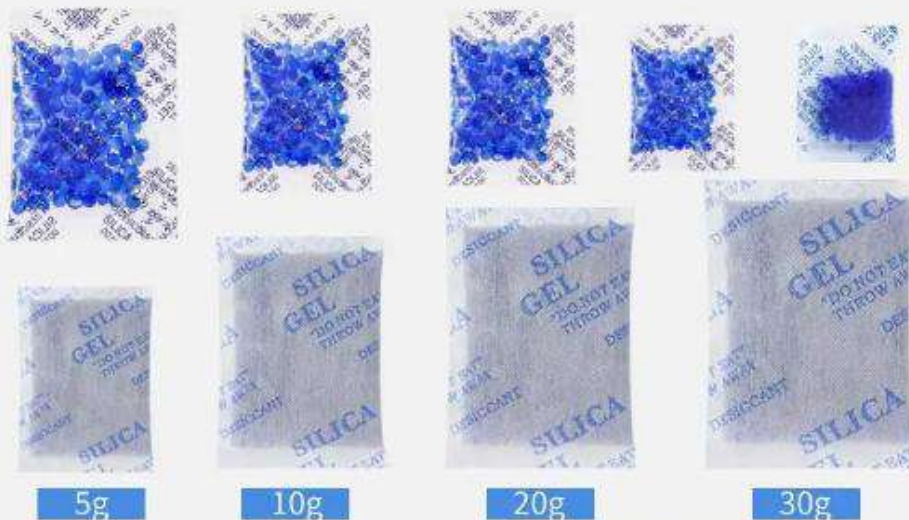
Unlike standard white silica gel, these packets contain a moisture indicator—cobalt chloride—which changes color from **blue (dry)** to **pink (saturated)**, clearly showing when the desiccant needs replacement or reactivation.

Moisture Absorption Curve

Color Indicator Function – Beads turn **from blue to pink** as they absorb moisture:

- Blue: dry, $RH \leq 20\%$
- Gradual color change begins from $RH \geq 20\%$
- Fully pink at $RH 50\%–60\%$ (saturated)





Standard Sizes: 1g / 2g / 5g / 10g / 20g / 50g / 100g / 500g / 1000g Customized

Packaging: Non-woven fabric, Composite film

Packaging Material Optional



Composite Paper



Non-woven



Aihua Paper



Tyvek® Paper



Montai Paper



OPP Film

At **SORBSTAR**, we provide a variety of packaging options such as **composite paper**, **non-woven fabric**, **Tyvek® paper**, **Dulai Paper**, **Montai paper**, **Aihua paper**, and **OPP film**. Each packaging material offers distinct characteristics to meet different application requirements. We encourage you to select the most suitable type for your intended use.

Blue Indicating Silica Gel Packets Specification

Weight (gram)	Packaging Material	Size L*W (mm)	Packaging (pcs/ctn)	Carton Weight (kg/carton)
1	opp	40*30	10000	10
3	opp	45*50	4000	12
3	non-woven fabric	45*50	4000	12
5	opp	45*60	3000	15
5	non-woven fabric	45*60	3000	15
10	opp	45*80	1500	15
10	non-woven fabric	45*80	1500	15
20	non-woven fabric	70*90	1000	20
30	non-woven fabric	70*100	600	18
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



Orange Indicating Silica Gel Packets

(Particle sizes:1-3mm,2-4mm,3-5mm) Available
SORBSTAR Orange Indicating Silica Gel is a **non-toxic, cobalt-free** desiccant that changes color from vibrant **orange to green** as it absorbs moisture—providing a visual indicator of packet saturation. Engineered for safety and performance, it is widely used in electronics, food packaging, pharmaceuticals, leather goods, and archival protection.

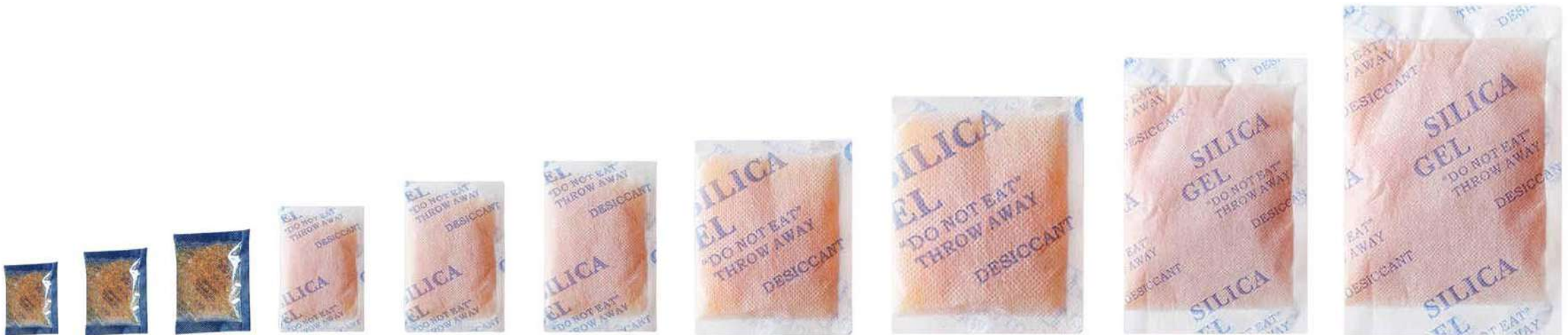
Item	Description
Appearance	Orange spherical beads
Color Change Range	Orange → Green
Main Composition	Silica Gel + Orange Indicator (Cobalt-free)
Moisture Content	≤ 3%
Adsorption Capacity (25°C, RH 90%)	≥ 30–40%
Packaging Materials	Non-woven Fabric, OPP Film, Composite Paper, Tyvek
Available Sizes	1g, 3g, 5g, 10g, 20g, 30g, 50g, 100g, 200g, 250g, 300g, 500g, 1000g etc.
Shelf Life	2 years (sealed)
Certification Support	MSDS, SGS

Features:

- Cobalt-Free Indicator:** Uses a safe, environmentally friendly indicator dye (no cobalt chloride)
- Color Change Function:** Beads turn orange → green as they absorb moisture
- High Absorption Capacity:** Up to 30–40% of its weight in moisture
- Visual Moisture Control:** Easily detect desiccant status without instruments
- Good Packaging Material:** Good breathability and anti-dust packaging material and strong seal strength.
- Custom Branding:** Customized logo, OEM printing & custom pack sizes available

Orange Indicating Silica Gel Packets Applications

- Precision Electronics & Circuit Boards
- Pharmaceuticals & Medical Devices
- Food Packaging, Supplements & Vitamins
- Shoes, Bags, Textiles & Leatherware
- Documents, Books & Archival Storage
- Optics, Lenses, Cameras, Tools



Orange Indicating Silica Gel Packets Specification

Weight (gram)	Packaging Material	Size L*W (mm)	Packaging (pcs/ctn)	Carton Weight (kg/carton)
1	opp	40*30	10000	10
3	opp	45*50	4000	12
3	non-woven fabric	45*50	4000	12
5	opp	45*60	3000	15
5	non-woven fabric	45*60	3000	15
10	opp	45*80	1500	15
10	non-woven fabric	45*80	1500	15
20	non-woven fabric	70*90	1000	20
30	non-woven fabric	70*100	600	18
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



Non-Indicating Silica Gel Packets

(Particle sizes:1-3mm,2-4mm,3-5mm) Available

SORBSTAR white non-indicating silica gel packets offer a trusted, cost-effective solution for controlling moisture in sealed environments. Packets contain white non-indicating beaded silica gel and are Inert, non-toxic, and DMF-free. Silica gel remains dry to the touch even after saturation. With the ability to adsorb up to 40% of their weight in moisture, these packets prevent mold, condensation, and rust in packaging, transit, and long-term storage.

Item	Description
Contents	Non-indicating beaded silica gel
Chemical Composition	SiO ₂ (Silicon Dioxide)
Moisture Content	≤ 3%
Adsorption Capacity	Up to 40% of its weight
RH Levels	Lowers to 30–40% RH
Bulk Density	700–750 g/L
Toxicity	Non-toxic, DMF-free, food safe
Packaging Materials	Composite paper, Tyvek, non-woven fabric, OPP film, etc.
Available Sizes	1g, 3g, 5g, 10g, 20g, 30g, 50g, 100g, 200g, 250g, 300g, 500g, etc.

Features

- Made with pure white non-indicating silica gel
- Highly effective at controlling moisture, mold, condensation, and rust
- Adsorbs up to 40% of its own weight in moisture
- Remains dry to the touch, even after saturation
- Performs best at 20–35°C and 60–90% RH, but functions up to 60 °C
- Inert, non-toxic, and DMF-free
- Available in custom sizes and packaging materials

White no-Indicating Silica Gel Packets Applications

- Electronics & circuit boards
- Pharmaceutical & medical packaging
- Food products, supplements & vitamins
- Cameras, lenses & optics
- Textiles, leather goods & shoes
- Archival documents & books
- Tools, metal components & machinery



White no-Indicating Silica Gel Packets Specification

Weight (gram)	Packaging Material	Size L*W (mm)	Packaging (pcs/ctn)	Carton Weight (kg/carton)
3	opp	45*50	4000	12
3	composite paper	45*50	4000	12
3	non-woven fabric	45*50	4000	12
5	opp	45*60	3000	15
5	composite paper	45*60	3000	15
5	non-woven fabric	45*60	3000	15
10	composite paper	45*75	1500	15
10	non-woven fabric	45*75	1500	15
20	non-woven fabric	70*90	1000	20
30	non-woven fabric	70*100	600	18
50	non-woven fabric	80*115	400	20
100	non-woven fabric	85*140	200	20
200	non-woven fabric	105*185	100	20
250	non-woven fabric	110*195	80	20
300	non-woven fabric	105*200	60	18
500	non-woven fabric	145*210	40	20



Applications:

- Electronics & circuit boards
- Pharmaceutical products
- Food supplements & vitamins
- Leather goods, shoes, and bags
- Cameras, lenses, and optical instruments
- Archival storage and documents
- Tools, hardware, and spare parts packaging

Orange & White Mixed Indicating Silica Gel Desiccant Packets

Moisture Protection with Visual Indicator

Orange & White Mixed Indicating Silica Gel Desiccant Packets combine non-indicating white silica gel beads with orange indicating beads to provide reliable moisture control and clear visual feedback on saturation. The orange beads gradually turn green as they absorb moisture, making it easy to monitor the effectiveness of the desiccant at a glance. Each packet is sealed in high-quality OPP film, which allows moisture permeability while keeping the contents intact.

Item	Description
Contents	White silica gel beads + orange indicator beads
Appearance	Transparent white + orange round beads
Color Change	Orange → Green (as RH increases)
Chemical Composition	SiO ₂ (Silicon Dioxide)
Moisture Content	≤ 3%
Adsorption Capacity	30% – 40%
Effective RH Control	30–40% RH
Toxicity	Non-toxic, cobalt-free, DMF-free
Packaging Material	OPP film (moisture-permeable)

Features

Visual Indication:

Orange silica gel changes color to green when saturated.

Safe and Non-toxic:

Free from cobalt chloride, DMF-free, RoHS & REACH compliant.

Durable Packaging:

High-transparency, moisture-permeable OPP film allows easy inspection of silica gel color.

Efficient Moisture Control:

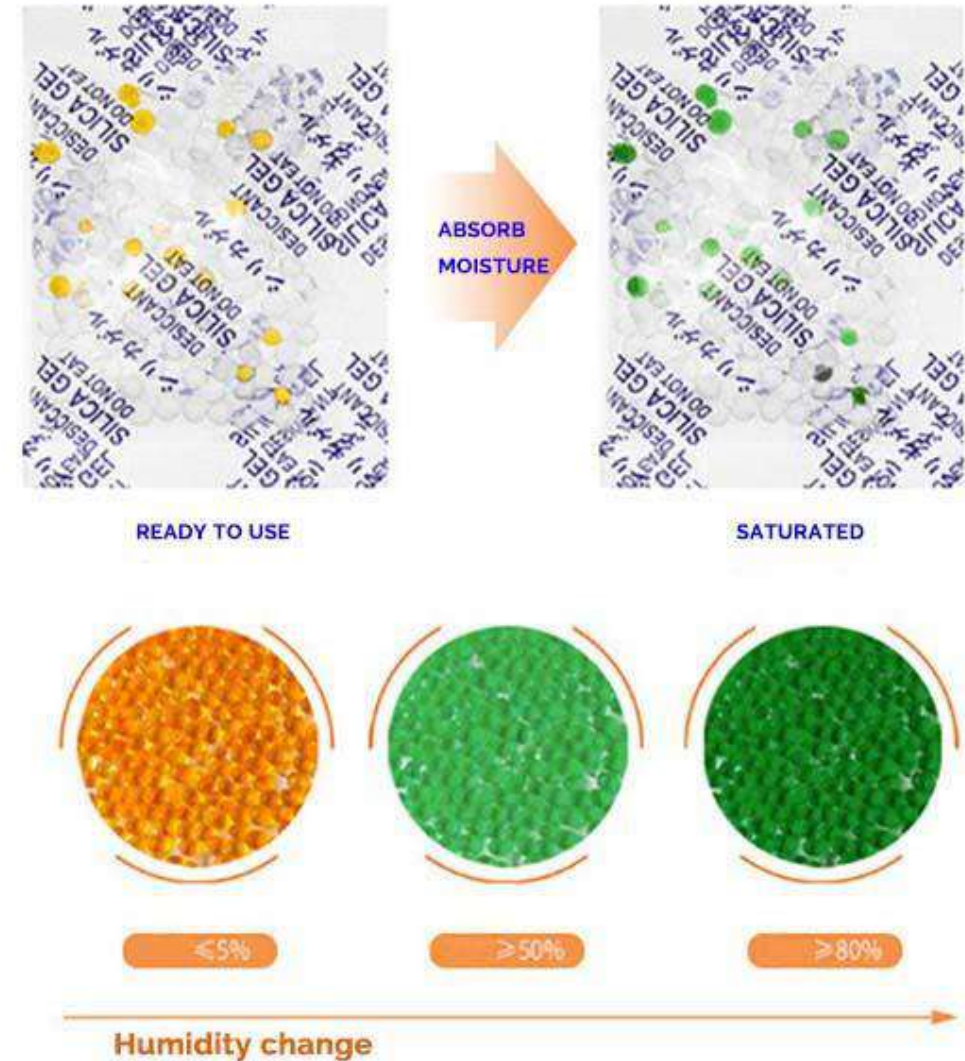
Reduces humidity to 30–40% RH within sealed environments.

Long-lasting Performance:

Can absorb up to 40% of its own weight in moisture.

Customizable:

Available in a wide range of sizes, with OEM branding or label printing upon request.



Orange & White Desiccant Packets Specification

Weight (gram)	Packaging Material	Size L*W (mm)	Packaging (pcs/ctn)	Carton Weight (kg/carton)
3	opp	45*50	4000	12
5	opp	45*60	3000	15
10	opp	45*80	1500	15