USER GUIDE · RECHARGEABLE · ORANGE TO GREEN

Orange means ready. Green means recharge.

Silica gel desiccant packets with 10% orange indicator beads. Clear colour-coded protection for electronics, tools and everyday storage — dry it out, and use it again.



10%
Of the beads are orange indicator — visible at a glance

35%
Moisture absorbed, of the packet's own weight

2–3 min
Microwave recharge at 700 W

0.5–2 h
Oven recharge at 200 °F (95 °C)

THE WHOLE IDEA, IN ONE STRIP

Orange = dry and ready · **Olive** = working · **Dark green** = saturated, recharge it

Cobalt chloride free · **SGS** Safety Data Sheet · **EU REACH** 253 SVHC tested · **ClimatePartner** certified FXKMGW · **Non-toxic** & odourless

SECTION 01

Product Specifications

SPECIFICATION	5 G PACKET	10 G PACKET	20 G PACKET	50 G PACKET
Packet size	1.9 × 2.4 in 47 × 60 mm	1.9 × 3.3 in 47 × 85 mm	2.4 × 3.9 in 60 × 100 mm	3.1 × 4.9 in 80 × 125 mm
Coverage per sealed container	≈ 3 L 0.75 gal	≈ 6 L 1.5 gal	≈ 12 L 3 gal	≈ 30 L 8 gal
Typical pack counts	30 · 60 · 120 Packets per bag	30 · 50 Packets per bag	15 · 50 Packets per bag	10 · 20 Packets per bag
Best for	Small boxes, camera bags, drawers	Spice cabinets, shoe boxes, medium totes	Wardrobes, filament boxes, large totes	Storage bins, gun safes, suitcases

Shared specification

Desiccant	**White silica gel beads, 2–4 mm, plus 10% orange indicating beads**
Absorption	**Up to 35% of the packet's own weight**
Packet material	**Non-woven fabric — semi-transparent, tear-resistant, tested to strict material safety specifications**
Additives	**Cobalt chloride free. No blue cobalt beads, no chemical fragrance**
Packaging	**Vacuum-sealed for freshness, with a resealable outer bag for unused packets**
Storage	**Keep sealed in a cool, dry place, away from direct sunlight**

How to read the colour

Orange beads are the indicator. They start orange when the silica gel is dry and turn progressively olive, then dark green, as moisture is adsorbed. The change is reversible — heating drives the moisture out and the beads return to orange.

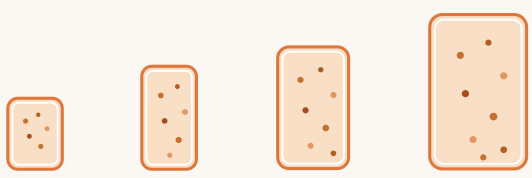
Orange
Dry — ready to use

Olive
Absorbing — still working

Dark green
Saturated — recharge now

Why only 10%? The white gel does the work; the orange beads are your gauge. A visible fraction is enough to read at a glance without giving up capacity. Check the colour every few weeks — in very humid air a packet can go from orange to dark green within days, and a packet left saturated for months is slower to recover.

RELATIVE PACKET SIZES · 1 : 4 SCALE



5 g
≈ 3 L

10 g
≈ 6 L

20 g
≈ 12 L

50 g
≈ 30 L

Same fabric, four sizes. All packets share the same semi-transparent, tear-resistant non-woven material and the same 10% indicator mix — pick by the litres of air you need to protect, then scale up or down as your storage changes.

SECTION 02

How to Use

Four steps, one minute. The only rule that matters: a desiccant works in a sealed space. In open air it saturates quickly and protects nothing.

01

Choose by air volume

Match the packet to the litres of air inside the container — not to the weight of what you store. When in doubt, go one size up.

02

Place it where air moves

Put packets on top of or beside your items. Do not bury them at the bottom of a full bin — air has to reach the fabric.

03

Seal the container

Close it airtight: zip bag, latching bin, screw lid. Every gap lets humid room air back in and shortens protection time.

04

Watch the colour

Replace or recharge when the beads are dark green. Unused packets go straight back into the resealable bag.

Sizing rule of thumb. One 5 g packet covers about 3 L of sealed air, 10 g about 6 L, 20 g about 12 L and 50 g about 30 L. In humid climates, for long-term storage, or for porous contents such as paper and fabric, add extra packets — over-provisioning is harmless.

BEFORE YOU START

· Packets arrive vacuum-sealed — open the bag only when you are ready to use them.

· Do not open, cut or empty a packet. The fabric is the working surface.

· Keep packets out of reach of children and pets, and never eat the contents.

SECTION 03

Where It Works

Anywhere moisture is the enemy: closed containers, cabinets, cases and drawers.

Car, RV & boat

Cabins, glove boxes, tool lockers and storage hatches — fights damp between trips.

Camping & outdoor gear

Sleeping bags, tents, hiking packs and tackle boxes — no mildew between trips.

Safes & firearms

Gun safes, ammo cans, tool boxes — fights rust, corrosion and musty odour.

Cameras & electronics

Lenses, phones, watches, circuit boards — protects optics from fog and fungus.

3D printing filament

PLA, PETG, nylon and resin — stops bubbling, stringing and brittle prints.

Tools & hardware

Bits, blades, fasteners and spare parts — no surface rust between jobs.

Wardrobes, shoes & bags

Leather, sneakers and seasonal clothing — no mildew spots, no musty smell.

Documents & collectibles

Photos, books, stamps, cards — prevents yellowing, curling and foxing.

Recharge & Reuse

When the beads are dark green, the packet is not finished — it is full. Heat drives the moisture back out and the beads return to orange, ready for another cycle.

1 · Check colour
Dark green across the packet

→

2 · Heat
Oven 0.5–2 h or microwave 2–3 min

→

3 · Cool down
Back to room temperature

→

4 · Seal & reuse
Bag it airtight until next time

Oven Method

RECOMMENDED

1. Heat the oven to **200 °F (95 °C)**. Convection or conventional both work.
2. Spread the packets in a **single layer** on a baking sheet — not touching, not stacked.
3. Bake for **0.5–2 hours**. Use the longer end for 50 g packets or heavily loaded ones.
4. Check at 30 minutes. Colour should be orange again; the fabric must not brown or scorch.

Microwave Method

FASTER

1. Place the packets on a **microwave-safe plate**, spaced apart, in a single layer.
2. Heat at **700 W (medium)** for **2–3 minutes**, then take the plate out and let the packets cool.
3. Still olive or green after cooling? Let the packet cool back to **room temperature**, then run **another cycle**. Repeat as many times as needed until the beads are orange again.
4. Never use high power or a metal tray. Overheating melts the fabric and scorches the beads.

DO

- Recharge only when the packet is dark green — heating a dry packet shortens its life.
- Let packets cool completely before handling or sealing them in a bag.
- Keep the resealable outer bag closed; a recharged packet starts absorbing immediately.
- Reheat as often as needed — just cool the packet back to room temperature between cycles. Each full cycle restores the same absorption capacity.

DON'T

- Don't microwave the outer resealable bag, or any packet still inside a plastic wrapper.
- Don't use the highest power setting, a metal tray, or an oven above 250 °F (120 °C).
- Don't handle hot packets — the fabric and beads hold heat and can burn.
- Don't reuse a packet that is torn, leaking, discoloured brown or burnt. Discard it.

Colour check after cooling. Beads read darker while warm. Wait until the packet is back at room temperature before judging the colour — orange means the cycle is complete, olive means heat it again. Keep repeating cool-down and heating until the beads turn orange.

Certifications & Compliance

Independently tested by SGS and certified carbon-neutral by ClimatePartner. Registration numbers are listed below so buyers, distributors and customs can verify each document.

CERTIFICATE 01

Safety Data Sheet

SGS-CSTC Standards Technical Services
(Qingdao) Co., Ltd

REPORT NO.
EECSSDS2602031601

SGS job no.	**SZP26-006039**
Standard	**Annex II of REACH (EC) 1907/2006 · Regulation 2020/878**
Issue date	**12 February 2026**
Product	**Fonday Food Grade Rechargeable Silica Gel Desiccant Packet**
Classification	**Non-hazardous — no hazard pictogram, no signal word**

CLASSIFIED NON-HAZARDOUS

CERTIFICATE 02

EU REACH · SVHC

SGS-CSTC Standards Technical Services
Co., Ltd. Guangzhou Branch

REPORT NO.
CANEC26003121702

SGS job no.	**SZP26-005851**
Scope	**253 substances on the ECHA Candidate List (published on or before 4 Feb 2026)**
Regulation	**(EC) No. 1907/2006**
Issue date	**10 February 2026**
Result	**All screened SVHC ≤ 0.1% (w/w) in the submitted sample**

PASS · ALL SVHC ≤ 0.1%

CERTIFICATE 03

Product Carbon Footprint

ClimatePartner LLC
Boston, Massachusetts, USA

CERTIFICATION ID
FXKMGW

Report	**GHG Compliant Report — Silica Gel Desiccant Packets (Version 1)**
Inventory date	**3 February 2026**
Scope	**Cradle-to-grave, GHG Protocol Product Standard**
Result	**14.1 kg CO_2e per unit of analysis (cradle-to-gate 5.29 kg CO_2e)**
Status	**Climate Pledge Friendly on Amazon**

CARBON NEUTRAL · CLIMATEPARTNER CERTIFIED

QUICK REFERENCE

How many packets do I need?

TYPICAL CONTAINER	AIR VOLUME	RECOMMENDED	PACKET SIZE
Camera bag, small drawer, single shoebox	Up to 3 L (0.75 gal)	**1 × 5 g**	1.9 × 2.4 in
Spice cabinet, medicine bin, medium tote	3–6 L (0.75–1.5 gal)	**1 × 10 g**	1.9 × 3.3 in
Wardrobe shelf, filament dry box, large tote	6–12 L (1.5–3 gal)	**1 × 20 g**	2.4 × 3.9 in
Storage bin, suitcase, gun safe, ammo can	12–30 L (3–8 gal)	**1 × 50 g**	3.1 × 4.9 in
Large bin, closet, cargo case	Each further 30 L	**+1 × 50 g**	3.1 × 4.9 in

Tested sample: Fonday Food Grade Rechargeable Silica Gel Desiccant Packet — orange indicating silica gel, supplied in 5 g, 10 g, 20 g, 50 g, 100 g, 200 g and 500 g. Silica gel CAS No. 112926-00-8 (amorphous, non-crystalline). Applicant: SHENZHEN SHI FANGDEJIANGXIN E-COMMERCE CO., LTD. Full SDS, REACH and carbon footprint documents are available at **www.fondayair.com** or on request from Fonday customer support.