



Silica Gel

- Adsorbing Capacity: up to 30%
- Used in the following applications:
 - electronic equipment
 - cameras
 - tools
 - computers
 - musical instruments
 - preservation packaging
 - and all humidity sensitive products
- Available in a variety of sizes 0.5g to 500g



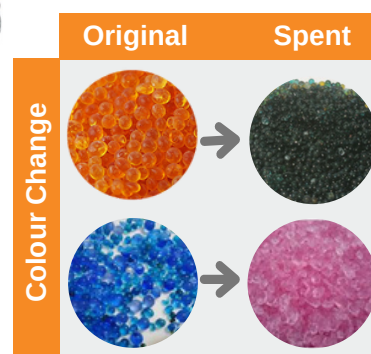
Product Name	Weight (g)	Product Dimension (cm)	Units/Ctn	SKU
Silica Gel 0.5g	0.5	1.7 x 3.4	12,000	SD-0.5g-TY
Silica Gel 1g	1	1.8 x 3.9	7,000	SD-1g-TY
Silica Gel 2g	2	2.2 x 4.6	4,000	SD-2g-TY
Silica Gel 5g	5	4.5 x 6.5	2,000	SD-5g-TY
Silica Gel 10g	10	6 x 8	800	SD-10g-TY
Silica Gel 25g	25	7.5 x 9	500	SD-25g-TY
Silica Gel 50g	50	7.8 x 11	240	SD-50g-TY
Silica Gel 100g	100	9.8 x 13.5	120	SD-100g-TY
Silica Gel 500g	500	15 x 21	28	SD-500g-TY

Indicating Silica Gel

- Adsorbing Capacity: up to 30%
- Colour change lets you see at a glance when your Silica Gel is spent, allowing you to make full use of your silica gel
- Option: Orange (turns green) or Blue (turns pink)
- Note: Only orange silica gel can be used with food products. Blue silica gel contains cobalt chloride, rendering it unsuitable for use with food products



Product Name	Weight (kg)	SKU (Blue)	SKU (Orange)
Indicating Silica Gel 600g	0.6	SDR-600g-Blue	SDR-600g-Orange
Indicating Silica Gel 1.2kg	1.2	SDR-1.2kg-Blue	SDR-1.2kg-Orange
Indicating Silica Gel 1.9kg	1.9	SDR-1.9kg-Blue	SDR-1.9kg-Orange
Indicating Silica Gel Drum	25	SD-25kg-Blue	SD-25kg-Orange



What is Silica Gel and how does it work?

Silica Gel is a glass-like, porous structure of silicon dioxide (SiO₂). It adsorbs up to 30% of its own weight. And you read it correctly, that's adsorb and not absorb. Silica Gel adsorbs moisture with the water molecules adhering to the surface of the Silica Gel granule. Silica Gel is covered in millions of pores that retain this moisture. Pore opening size ranges a magnitude up and down from a billionth of a metre (nanometre). The pores create a huge surface area, which will bind water through surface adsorption and capillary action.

Silica Gel comes packaged in Tyvek bags which are made from high density polyethylene fibres, making them extremely tear-resistant. In addition, Tyvek is lightweight, flexible, smooth, low-linting, and is resistant to water, chemical abrasion, and ageing. The Pro-Ex Silica Gel range is food grade.



Suitability

Under optimal conditions Silica Gel will adsorb up to 30% of its own weight.

The adsorption ability falls at temperatures above 30-40°C. Although some moisture can be adsorbed at temperatures up to 80°C, the risk of re-evaporation of already adsorbed moisture make Silica Gel unsuitable for use in an environment where temperatures of above 40°C may occur even temporarily.

NOTE: Silica Gel desiccants are NOT suitable as a shipping desiccant but can be used in packages where the risk of high temperatures is small.



Advantages of Silica Gel

- ✓ if stored correctly can have an almost indefinite shelf life
- ✓ non-toxic and non-flammable
- ✓ adsorbs up to 30% of its weight in moisture
- ✓ odourless
- ✓ non-corrosive
- ✓ can be reactivated and reused if required

Silica Gel Applications

Prevent mould – leather goods, photo albums, certificates, photo frames

Reduce spoilage and prolong shelf life – dried fruit, herbs, nuts and medication bottles

Prevent corrosion – electronics, camera equipment, tools

