



Desiccant Canisters

Purpose

To extend shelf life and efficacy of pharmaceutical, nutraceutical, diagnostic and medical products by preventing moisture damage.

What are they?

Desiccant canisters are small, rigid, cylindrical containers filled with desiccants like bentonite clay, silica gel and molecular sieve, aimed at adsorbing moisture. They can also contain fills like activated carbon, aimed at controlling odors.

Why use them?

When products like medicine and vitamins are exposed to moisture, they risk becoming less effective or shortening their normal shelf life. Desiccant canisters help prevent moisture damage by adsorbing moisture in the air.

Desiccant canisters from Süd-Chemie Performance Packaging, a business unit of Süd-Chemie Group, are the most widely used canisters in the pharmaceutical industry. Because of their rigid design, desiccant canisters are ideal for automatic, high-speed insertion in pharmaceutical and nutraceutical bottles and packaging. While desiccant packets are fed from a reel and require constant line stoppages, desiccant canisters are fed through a hopper system, allowing for seamless, constant insertion.

All materials used in Süd-Chemie's canisters meet FDA standards for direct contact with food and drugs. And, their distinctive shape clearly differentiates them from pharmaceutical tablets and capsules, preventing accidental ingestion.

Unlike other canisters, which are manually inspected, Süd-Chemie's cutting-edge technology offers 100 percent quality inspection of every standard canister. Two separate electronic vision systems check for defects such as holes, flashes or tails, while a third verifies that the finished canister has been assembled correctly and is consistent in size and shape with others being produced.

Available configurations

Desiccant canisters are available in both printed and labeled configurations, in standard sizes from ½ gram to 3 grams. Both printed and labeled canisters are available in the following standard desiccant fills:

- Desi-Can™:** Bentonite clay (moisture adsorption)
- Getter Can®:** Activated carbon (odor control)
- Sorb-It®:** Silica gel (moisture adsorption)
- 2-in-1 Can®:** Silica gel or bentonite clay, with activated carbon (moisture *and* odor control)
- Tri-Sorb®:** Molecular sieve

(Turn over for technical usage and performance data)



Süd-Chemie's desiccant canisters are the most widely used in the pharmaceutical and nutraceutical industries. All comply with FDA CFR 21 requirements for direct contact with food and drugs.



The canisters are available in a variety of sizes and fills, including silica gel, bentonite clay and activated carbon.



Süd-Chemie's canisters are ideal for high-speed insertion in pharmaceutical and nutraceutical packaging.

Typical applications:

- ✓ Pharmaceutical
- ✓ Nutraceutical
- ✓ Diagnostic
- ✓ Medical
- ✓ Dental

SÜD-CHEMIE
Creating Performance Technology



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Desiccant Canisters

Usage Requirements

Select container size and read across to find required amount.

Container Size (Cubic cm)	Required amount weight (grams)				
	Desi-Can™	Sorb-It®	Getter Can®	2-in-1 Can®	Tri-Sorb®
30	½	½	½	½	½
40	½	½	½	½	½
50	½	½	½	½	½
60	½	½	½	½	½
75	1	¾	½	½	1
100	1	1	1	1	1
150	1	1	1	1	1
200	2	2	2	2	2
300	2	2	2	2	2
400	3*	3	2	3	3
500	3*	3	2	3	3
750	5*	5*	2	5*	5*
950	5*	5*	5*	5*	5*

*Use combination of two canisters.

NOTE: The amount of desiccant/adsorbent required will depend on the chemical characteristics of the product, as well as the volume contents and physical properties of the container. Süd-Chemie recommends that a stability study is performed to determine the exact amount required. Samples are available upon request.

Desi-Can™: Activated clay desiccant. Free flowing granular material with high moisture adsorbing ability from 20 to 80 percent relative humidity under normal packaging and storage conditions.

Sorb-It®: Silica gel made from amorphous silicate. A hard, translucent material with an extremely high capacity for moisture at temperatures below 75° F and humidity levels above 40 percent.

Getter Can®: Activated carbon used in controlling objectionable odors and gases through the process of adsorption.

2-in-1 Can®: Silica gel or activated clay, combined with activated carbon to simultaneously control moisture, gas and odor.

Tri-Sorb®: Molecular sieve. A very aggressive desiccant that can be used to quickly control moisture and odor.