

Desiccant Canisters

Purpose

To enhance the stability of pharmaceutical, nutraceutical products by preventing moisture degradation, thereby extending shelf life and efficacy.

What are they?

Desiccant canisters are small, rigid, cylindrical containers filled with specialized moisture adsorbers, such as bentonite, silica gel and molecular sieve. They can also contain activated carbon to control odors.

Desiccant canisters are available in sizes ranging from ½ gram to 3 grams. Süd-Chemie injection molds and manufactures desiccant canisters in state-of-the-art production facilities.

Why use them?

Water, via hydrolytic degradation, is a major pathway for destabilization of many active pharmaceutical ingredients, shortening their shelf life and efficacy. Furthermore, moisture can also degrade nutritional products as well as sensitive enzymatic reagents in diagnostic devices. Desiccant canisters help prevent moisture damage by adsorbing free water within package headspace as well as any moisture that gains ingress via Moisture Vapor Transmission.

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

Süd-Chemie manufactures canisters that meet relevant FDA and EU standards for direct food contact.

Süd-Chemie's quality systems include electronic vision systems to ensure quality inspections of every canister. Two separate vision systems check for defects such as holes, flashes or tails, while a third verifies that the finished canister has been assembled within its rigid specifications.



Desiccant canisters are available in a variety of sizes and fills, including bentonite, silica gel and activated carbon. They are designed for continuous-feed and high-speed automatic insertion.

Key Advantages

- Ideal for automatic, high-speed insertion into pharmaceutical and nutraceutical bottles and packaging.
- 100 percent quality inspection of every standard canister.
- Meet FDA and EU standards for direct food contact.

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Available configurations

Desiccant canisters are available in both printed and labeled configurations, in standard sizes from 1/2 gram to 3 grams. Both printed and labeled canisters are available in the following standard desiccant types:

- **Desi-Can®**: Bentonite clay (moisture adsorption) - 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 (moisture adsorption) - 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.
- **Tri-Sorb®**: Molecular sieve - A very aggressive desiccant that can be used to quickly control moisture and odor.
- **Getter Can®**: Activated carbon (odor control) - Activated carbon used in controlling objectionable odors and gases through the process of adsorption.
- **2-in-1 Can®**: Silica gel or bentonite clay, with activated carbon (moisture and odor control) - Silica gel or activated clay, combined with activated carbon to simultaneously control moisture, gas and odor.

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