



Desiccant Bags

Purpose

To protect goods within a sealed moisture barrier package or container from moisture damage.

What are they?

Desiccant bags adsorb moisture, odors and chemicals to preserve and protect products. They range in size from 1/6 unit to 80 units (5½ grams to 2,640 grams) to protect any number of products, including semiconductors, electronics, cartons of food, or even large machinery.

Why use them?

Whether in storage or transit, products in nearly every industry require protection from moisture. Rust, mildew, mold and an overall decrease in product efficacy are all common effects of moisture, costing millions in returned or unusable product each year. Desiccant bags help prevent damage by adsorbing moisture in the air.

Available configurations

Desiccant bags from Süd-Chemie Performance Packaging, a business unit of Süd-Chemie Group, are packaged in DuPont Tyvek®, GDT-II or high-strength polyester rayon materials, all of which are strong, durable and meet FDA specifications. Bags are available in sizes ranging from 1/6 unit to 80 units (5½ grams to 2,640 grams), in the following configurations:

Desi Pak®: Bentonite clay (moisture adsorption)

Getter Pak®: Activated carbon (odor control)

Sorb-It®: Silica gel (moisture adsorption)

2-in-1 Pak®: Silica gel or bentonite clay, with activated carbon (moisture *and* odor control)

Tri-Sorb®: Molecular sieve

Desi View®: Bentonite clay or silica gel, plus blue indicating gel

Desi Pak®, a packaged clay desiccant, is one of Süd-Chemie's most economical and effective options.

Desi View®, which features one side of Tyvek® and one side of clear film, allows for quick visual inspection of whether the desiccant has achieved its moisture vapor capacity. Filled with a combination of either desiccant clay or silica gel and blue indicating gel, users know to replace Desi View when the blue gel turns pink.

Süd-Chemie offers **netted desiccant bags**, meant to protect powdered products, bulk solids, metals and foods, such as flour and sugar. Covered with a red, food-grade netting, the bags can be dropped directly into powdered products, and easily identified and discarded once the product is ready to be used.

Also available are Süd-Chemie's **string sewn desiccant bags**, made of high-strength polyester rayon material. **(Turn over for industry-specific technical information)**



Süd-Chemie's desiccant bags come in many fills and sizes. Desi Pak® (above left) is one of its most economical and effective options. Desi View® (above right) features blue indicating gel that allows users to visually determine if the bag needs to be replaced.



Desiccant bags, such as string sewn bags (right), can help prevent the rusting of metal parts during shipping and storage.



Typical applications:

- ✓ Electronic components
- ✓ Semiconductors
- ✓ Machine parts
- ✓ Military instruments, armaments
- ✓ Pharmaceuticals
- ✓ Motors
- ✓ Circuit Boards
- ✓ Relays, communication devices
- ✓ Oceanographic devices
- ✓ Documents and paper storage
- ✓ Museum storage
- ✓ Foodstuffs
- ✓ Flour, sugar, grains
- ✓ Batteries
- ✓ Medical Equipment
- ✓ Safes
- ✓ Optical devices

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Desiccant Bags

String sewn bags are ideal for protecting large items from rust, corrosion or other moisture damage. They can be hung on large equipment for transport or storage, or within storage or transport containers. Most of Süd-Chemie's string sewn desiccant bags meet Mil Spec, as outlined below.

Süd-Chemie's Desi Pak and Sorb-It Tyvek® bags are certified as **Class 100 Clean Room** compatible. All bags tested emitted less than 100 particles (.5 microns in size or larger) per cubic foot of air.

Industry-Specific Technical Information

Süd-Chemie provides desiccant bag solutions for virtually every industry.

Military: Süd-Chemie's desiccant bags meet military specification Mil-D-3464E (Mil Spec). Mil Spec bags are classified as Type I (general use), Type II (non-dusting) and Type III (durability).

Type II bags meet both Type I and Type II requirements, just as Type III bags meet Type I, Type II and Type III requirements.

Süd-Chemie's Desi Pak® and Sorb-It® bags are available in either DuPont Tyvek® or GDT-II materials, which both meet Type I and Type II specifications. String sewn bags are available in Type III specifications.

Süd-Chemie's desiccant bags also meet Method II Packaging Standards, as described in Mil-P-116-E, which covers the basic requirements of military packaging methods of preparation.

Electronics: Süd-Chemie's bags comply with JEDEC standards for dry packaging of electronics and semiconductors.

Pharmaceuticals, Nutraceuticals and Food: Süd-Chemie's bags comply with FDA standards for direct contact with food and drugs.

Industry applications



Süd-Chemie's desiccant bags meet Mil-D-3464E (Mil Spec) Types I, II and III, and Method II Packaging Standards.



Desiccant bags comply with JEDEC standards for dry packaging of electronics and semiconductors.



Süd-Chemie's desiccant bags, including netted desiccant bags (shown above), comply with FDA standards for direct contact with food and drugs.