

DESI PAK™, SORB-IT™, AND TRI-SORB™ DESICCANT BAGS

Moisture protection solutions for packaged goods



Moisture protection during shipping and storage

Desi Pak™ bentonite clay, Sorb-It™ silica gel, and Tri-Sorb™ molecular sieve desiccant bags help protect a myriad of goods from costly damage by adsorbing excess moisture during shipping and storage.

Packaged in porous materials, Clariant's desiccant bags effectively adsorb moisture inside properly sealed packaging or storage containers to protect any number of products, including semiconductors, electronic devices, foods, equipment, machinery, military goods, metal components, nutraceuticals, and many other valuables.

Prevent moisture damage and help maintain shelf life

Moisture can quickly affect the value or destroy many valuable goods, causing rust, corrosion, mildew, mold, and device malfunction. Sealing goods inside packaging with the appropriate desiccant, goods can be protected from moisture and maintain long shelf lives.

Available Configurations

Desiccant bags are available in a variety of non-woven substrates, including DuPont™ Tyvek® material. Standard bag sizes range from 1/6 unit to 80 units (5½ grams to 2,640 grams). One Unit of desiccant is equal to 26 grams of silica gel or 33 grams of bentonite.

- **Standard Heat Sealed Bags:** Clariant offers one of the most comprehensive lines of quality heat-sealed desiccant bags.
- **String-sewn Bags:** Tie bags include bags made with a sewn string or non-woven strap, ideal for protecting large items from rust, corrosion, or other moisture damage. They can be hung on large equipment for transport or storage.
- **Kraft Bags:** Needed for some applications, Clariant offers a complete line of desiccant bags packaged in Kraft (Crepe) material.
- **Netted Bags:** Clariant offers netted desiccant bags to protect powdered products, bulk solids, metals, and foods. Covered with a red, food-grade netting, the bags can be dropped directly into powdered products and are easily identified and discarded once the product is ready to be used.
- **Speciality Bags:** Clariant provides packaging services for customized desiccant bags incorporating humidity indication and special adsorption qualities.

BUSINESS SEGMENT
CARGO & DEVICE PROTECTION
BU ADSORBENTS & ADDITIVES

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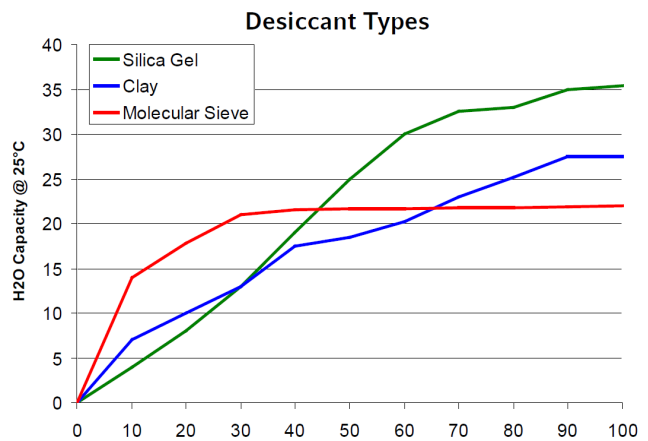
Specifications

Clariant offers desiccant bags that meet many of industry's most rigorous specifications, including 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). Clariant's Desi Pak and Sorb-It bags are available to meet Type I requirements, and specific Tie-Bags are available to meet Type III specifications. Clariant'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. Designated Mil-Spec bags are rechargeable using bag-specific instructions printed on each bag.

Desiccant bags comply with the most significant industry specifications, including:

- **Mil-Spec:** Clariant is listed on the Qualified Products List (QPL) as complying with the Mil-D-3464E as tested and qualified by the U.S. Department of the Navy.
- **DIN / AFNOR:** Clariant's desiccant bags comply with German DIN 55473 and TL 6850-0008 French specification AFNOR NF H 00321.
- **JEDEC:** Clariant Desiccant Bags, along with its Humitector™ Humidity Indicator Cards, meet the requirements for dry packaging, dry packing, applications for semiconductors.
- **Food & drugs:** Clariant offers desiccant bags that meet relevant U.S. FDA specifications for use in food and drug applications.

Clariant brand	Desiccant type
Desi Pak™	Bentonite (moisture adsorption)
Sorb-It™	Silica gel (moisture adsorption)
Tri-Sorb™	Molecular sieve (moisture adsorption)
Also available:	
	Desiccant + activated carbon (moisture and odor control)
	Activated carbon (odor control)



Desi Pak is Clariant's natural bentonite desiccant, offering excellent adsorption capacity, even compared to silica gel in low relative humidity packaging environments.

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application.* Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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