

PRODUCT SHEET

Desi Pak™ ECO desiccant packets



Eco-friendly Desi Pak™ ECO is a natural bentonite clay desiccant in a plastic-free, bio-based packet made from sustainably grown raw materials, designed to protect sealed packaged goods from moisture damage.

Specially designed moisture adsorbing solution

Desi Pak ECO desiccant packets are a specially designed moisture adsorbing solution focused on sourcing raw materials, and transportation packaging, with a lower environmental impact. They contain granulated bentonite clay that is highly adsorbent, naturally occurring, and responsibly mined. Packaging consists of a plastic-free, bio-based paper made from raw materials that are sustainably grown.

When inserted into a properly sealed product package or container, Desi Pak ECO packets offer a sustainable way to prevent moisture-related damage to packaged goods and help prolong shelf life. In manufacturing, use, and disposal, they combine high performance with minimal environmental impact.

Sustainability

Unlike silica gel, which is manufactured in a carbon- and energy-intensive process, the bentonite clay used in Desi Pak ECO is extracted through surface mining and merely requires granulation, drying, and grading prior to packaging and use.

The bentonite clay is naturally occurring and globally available, helping assure an uninterrupted supply and reducing the carbon footprint associated with transportation.

All Desi Pak bentonite clay are sourced by Clariant. The mining process begins with the exploration needed to identify and acquire top-grade bentonite clay deposits, through to the mining (extraction) process, and even to the reclamation/restoration process for areas where our mining is complete. Our commitment to ecological sustainability is clear: Clariant will restore and recultivate all bentonite mining areas to an equal or better state than when our operations began.

The bio-based paper and the water-based ink and adhesive used for packaging complement the active clay making Desi Pak ECO a sustainable alternative with fewer environmental impacts than synthetic desiccant in plastic packaging.

Lower environmental impact

A comparative environmental life cycle, based on desiccant manufactured in the United States of America demonstrated that when compared with a functionally equivalent quantity of silica gel, Desi Pak ECO presents a lower life cycle impact across four endpoint indicators: human health, ecosystem quality, resource use, and global warming potential.

BUSINESS SEGMENT

CARGO & DEVICE PROTECTION
BU ADSORBENTS & ADDITIVES

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Transportation packaging

Transportation packaging of Desi Pak ECO is also focused on materials with a lower environmental impact. The carton packaging used to transport Desi Pak ECO is specifically sourced to be recyclable and made from sustainably grown raw materials. Further, Desi Pak ECO comes packaged with cobalt-dichloride-free (CDF) humidity indicator cards.

The CDF cards are free of cobalt-dichloride, a chemical regulated under European Chemical Bureau (ECB) REACH directives. The CDF cards help ensure the desiccant is in excellent condition and ready for use by helping to avoid: (1) unforeseeable moisture damage by using inactive desiccant and (2) the need to quarantine desiccant until tested to ensure moisture during shipping or storage has not compromised the desiccant.

Available Configurations

Desi Pak ECO bentonite clay desiccants are available as single packets made of bio-based paper that uses only water-based adhesives and inks that are non-toxic, and comply with U.S. FDA requirements for contact with food.

Standard bag sizes are 1-, 2-, 5-, 10-, and 33-gram packets. Custom sizes may be available upon request.

Compliance

Desi Pak ECO is also available, upon request, with clay desiccant that complies with relevant U.S. FDA (21 CFR), suitable for use in food and drug packaging, and that comply with U.S. Pharmacopeia USP <670> testing requirements for Auxiliary Packaging Components.



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