



Trusted Partner in Healthcare Packaging



Innovation • Safety • Delivery

PRIMARY PACKAGING SOLUTIONS

ABOUT US

Sorbead India, a firm established in 1996, is a technical solution provider to choose the right desiccants in your primary packaging material.

We offer a broad and diversified spectrum of desiccants and adsorbent.

Our Strength remains in providing

1. Dosage calculation of desiccants for product specific for your formulations as well as API packaging.
2. Our strength remains in having stocks of every product at our floor and round the clock dispatch facilities. Technical services available at anytime you require.

We have a whole team to assist you with their expertise.

OUR GLOBAL PARTNERS



PILLOW PAK

Desiccare Inc. DMF: 11871 (Type III)

We offer a complete line of pharmaceutical grade small desiccant paks called Pillow Paks which are manufactured using DuPont Tyvek® and several custom substrates. Pillow Pak can be used to absorb moisture Vapor, Odor or Gas. Tyvek Properties: DuPont Tyvek is made of spun bonded olefin and is intended for packaging of substances which are meant to remain stable and not getting mixed with other products. It has outstanding porous microbial barrier & is non leaching and odorless.

Tyvek Properties: Best strength | Non-tearable material | Best moisture resistance | Inertness to most chemicals | Air permeability | Clean peeling seals | Low fiber tear.

Compliances: Meets USFDA and EU standards.

Salient Features: Packed in Tyvek material, Paper, Clear Films | Low moisture permeability | Non-tearable | Small composed pouches of high quality Desiccant | High absorption capacity.

Available Desiccants: Silica Gel • Molecular Sieve • Montmorillonite Clay • Carbon • Silica Gel+Carbon • Silica Gel+Molecular Sieve

Applications: Packaging of variety of products like Pharmaceuticals, Vitamins, Biologicals, Medical devices, Food, Optical clothing, Electronics & 1 other consumer products.

Available Sizes: In Pillow Pak & continuous Pillow Pak (Roll Form): 0.25gm, 0.5gm, 0.75gm, 1gm, 1.5gm, 2gm, 3 gm, 3.5 gm, 5 gm, 10 gm, 12 gm and 14 gm.



UNIT PAK

Desiccare Inc. DMF: 11871 (Type III)

We offer a complete line of pharmaceutical grade large desiccant paks called Unit Paks which are manufactured using DuPont Tyvek® and several custom substrates like kraft or cloth.

Tyvek Properties: DuPont Tyvek is made of spun bonded olefin and is intended for packaging of substances which are meant to remain stable and not getting mixed with other products. It has outstanding porous microbial barrier & is non leaching and odorless. • Best strength • Non tearable material • Best moisture resistance • Inertness to most chemicals • Air permeability • Clean peeling seals • Low fiber tear.

Compliances: Meets USFDA and EU standards. Also Mil Spec 3464 Type I & II.

Salient Features: Packed in Tyvek material • Low moisture permeability • Bigger composed pouches of high quality desiccant • High absorption capacity.

Available Desiccants: Montmorillonite Clay • Silica Gel • Molecular Sieves • Activated carbon Sil + Carbon

Applications : Packaging of API, other Pharmaceutical Goods, Aerospace, Military, Machinery, Shipping of Electronics and many more.

Available Sizes: (1 unit = 28 gm) 1/6, 1/3, 1, 2, 4, 6, 8, 16 and 80 units



PHARMACEUTICAL COILS

Carolina Absorbent Cotton USDMF: 6855
Canadian DMF:9623 Type III

Pharmaceutical Coil is available in 3 types of Fiber: Cotton, Rayon & Polyester, each provide distinct advantages and applications. Cotton Coil is composed of 100% bleached, absorbent cotton. It is selected for its clean, uniform fibers & is designed to give superior performance in packaging of pharmaceutical products. Rayon Coil is formulated of 100% rayon fibers providing a uniform fiber coil. Polyester Coil is white, Odorless, Soft, Uniformly carded, Low moisture, Resilient material.

COIL CHARACTERISTICS: Gram Weight-The weight of the coil per 1 yard length. The higher the gram weight, the thicker the coil. There are 15.43 grains/gm and 453.66 gms/pound. Standard industry gram weights are 9 gm, 12 gm & 16 gm. Cotton and Rayon coil meets USP and EP standards. A COA accompanies each shipment.

POLYESTER FIBER: Polyester coil is a White, Odorless, Soft, Low moisture, Resilient material comprised of 100% Polyester fibers. Other polyester characteristics include:

- Man-made fiber (petroleum derived)
- Uniform in fiber length
- Non- fluorescent
- Non-absorbent, will not introduce moisture or extract moisture from the bottle.
- Moisture content NMT 1%
- Most commonly used in bottling of soft-gel capsules.

COTTON FIBER: Carolina Absorbent Cotton is the only vertically integrated Cotton Coil manufacturer of the United States. Cotton Coil is composed of 100% bleached, absorbent cotton. The Cotton fibers are selected for cleanliness and are designed to give superior performance in packaging pharmaceutical products. Other Cotton characteristics include:

- Natural fiber
- Cuts easily
- Moisture Content NMT 8%
- Creates a dry environment inside the bottle
- Most commonly used in bottling of tablets and capsules
- Biodegradable

RAYON FIBER: Rayon coil is formulated of 100% absorbent rayon fibers. Other Rayon characteristics include:

- Man-made fiber (cellulose)
- Uniform fiber length
- Cuts or tears easily
- Moisture content is NMT 11%
- Most commonly used in the bottling of tablets
- Biodegradable.

APPLICATIONS: Pharmaceutical Coil is used for tablet and capsules packaging to provide a safe, non-toxic, economical, aesthetically pleasing, easy to use, traditional filler. It ensures freshness and stability in shipping and storing of ethical and generic pharmaceuticals, vitamins and food supplements

COTTON COIL / RAYON COIL / POLYESTER COIL



CANISTERS (SPLACK)

SPLack DMF No: 17896 (Type III)

We offer a complete line of pharmaceutical grade small desiccant canisters called Desiccant canisters which are manufactured by SPLACK and are available in packaging in HDPE canisters. These are used to absorb Moisture vapor, Odor or Gas.

Compliances: USFDA , 21 CFR , EU standards

Salient Features: These are Small compact containers containing Desiccants for protection from moisture.

Available Desiccants: Beaded or granular Silica Gel • Molecular Sieve
• Activated Carbon • Silica Gel + Carbon • Silica Gel + Molecular Sieves

Applications: Used along with Moisture sensitive Tablets / Capsules which are packed in bottles.

Available Sizes: 1 gm, 2 gm, 3 gm.



IRON FREE OXYGEN ABSORBER

Desiccare, Inc. DMF: 11871 Type: III

We offer a Line of Iron free Oxygen Absorbers designed to remove the oxygen content inside any packaged environment. **NO₂X** unique blend of absorbents will pick up approximately three times its weight of oxygen preventing the harmful effects of Oxygen, Mold, Mildew, Bacteria, Color change, Insects and Toxins. Within properly packed environment, **NO₂X** help eliminate need for additives, gas flushing and vacuum packing.

Compliances: USFDA, 21 CFR, EU standards.

Salient Features:

- These are available in form of sachets of various sizes useful for protection against oxygen as per the volume of final container in which it is packed.
- Absorbs almost 3 times its weight of oxygen.
- Maintains product freshness
- Extends shelf life.

Applications: Protection of API / formula (Tablets and Capsules) in bottle packaging against oxygen for oxygen sensitive molecules.

Available Size: IF-20, IF-50, IF-100, IF-200, IF-300, IF-500, IF-1000, IF-2000, IF-3000 CC



FOAM PLUGS

We offer Foam plugs which are White, blocks / cylindrical, made of urethane which are widely used as a filler with tablets. Capsules when they are bottled. These are of reusable quality with consistent density: 18 Kg / m³ and dimensions.

Compliances: South African Bureau of Standards Tests: SANS 640-2005 which tests for: Weight, Density, Ageing & Solvent Resistance. These foam plugs are checked for their performance with respect to health standards as per: ACUTE SYSTEMIC TOXICITY TEST.

Salient Features:

- Produced in blocks
- Auto-clavable
- Non-Absorbent
- Non Toxic & Non- Reactive.

Applications: Void space filler & mostly provides protection for tablets from chipping due to rattling while transportation.

Available Sizes: Available in Round cylindrical shapes & in form of blocks in the sizes and thickness as per customer's requirements.

Mould A Foam cc



LDPE BAGS / TRIPLE LAMINATED BAGS

LDPE BAGS: DMF: 8686 Marshall plastics.

We provide food grade LDPE bags which are virgin bags. USFDA material antistatic bags. Our these bags are widely used in API, Excipients, Pharmaceutical powders, Bulk tablets & Capsule packaging. The special additives used do not effect the film clarity or quality & is therefore most economical to use, As a standard film thickness can be selected.

EACH and EVERY component of the LDPE bags used during its manufacture are all USFDA approved, let it be: Resins used for manufacturing, Other adhesives & additive. Our LDPE bags are similar to ones used by the innovators which completely takes care that the material packed inside does not get spoiled in any manner.

Compliances: ISO 9002, USFDA, EU compliance, 21 CFR 178.3130

Salient Features:

- Linear Low Density
- Fractional Melt Low Density
- UVI
- Anti Stat
- Flame retardants & Anti-Block Additives are used in our LDPE bags
- In-house testing done for Full physical testing capabilities including FT-IR, DSC, Tensile, Seal and bust strength

Available Sizes: Our LDPE bags shall be tailor made and will available in all the sizes as per the customer's requirements.

- Multiple layers of metalized polyester provide puncture resistance and moisture barrier for this economical dry package.
- Anti-static properties help protect API's, powders, bulk tablets & capsules.
- This highly reliable material meets or exceeds commercial MVTR and EMI/RFI/Static shielding requirements for static safe, moisture barrier packaging.
- Perfect material for secondary & tertiary packaging of API's, Powders bulk tablets & capsules.



LAMINATED & ALUMINUM TUBES

We offer a wide range of easy to use and convenient laminate and aluminum tube options from Montebello packaging, for easy dispensing and direct application for the Pharmaceuticals, Household, Industrial, Food and Automotive markets. In addition, is offered a full range of specialized caps and sizes to meet the various market demands of the customers.

Laminate Tubes: Versatile Packaging

Montebello provides various laminates in a range of foil laminate and plastic barrier laminate materials, each with their own properties and thickness to meet your specifications. The layers combine to form a highly effective shield that protects against light, air and moisture penetration.

Laminate: Unlimited Features

- A wide variety of neck styles are available, even on tubes as small as 1/2 inch (12.7mm) in diameter.
- A tamper evident neck seal can be added for extra protection.
- To accommodate a variety of different closures and dispensing options, a custom made neck can be created to meet customer's specifications.

Aluminum Tubes: Optimal Package

Montebello aluminum tubes provide an airtight barrier for your products while completely eliminating air transfer and "Suck Back" effect. It is durable yet light weight. Aluminum provides ideal packages for Ointments, Creams, Gels, Cosmetics, Food pastes and other semi-solid Products.

Aluminum: Unlimited Features:

- A wide selection of neck dispensing options is available.
- The neck orifice may be Closed, Open or Custom made to your specifications.
- Break off tips are available for one time use products or for sampling purposes.
- Montebello offers unique tamper evident necks, Child resistant Closures and Dispensing Tips.

Montebello DMF : 9025



CSP ACTIV - VIALS

CSP Technologies

- Engineered Steel
- Easy open / close
- Low moisture ingress

Engineered Desiccant Sleeve

- Controlled moisture absorption
- Surround products

Incorporating our patented three phase active-polymer technologies and two-shot molding techniques, SORBEAD Active-Vial offer a range of innovative advantages:

Attached Lid Design:

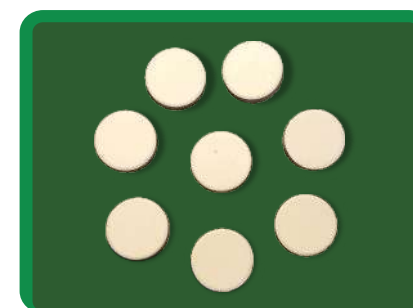
Our attached lid design allows convenient, one-hand opening, preferred by consumers for the manufacturer, it simplifies inventory, production and automation processes.



DESICCANT TABLETS

MVTR Testing is done according to USP 670, for strip packing of tablets/blister packs. For the same we have Desiccant tablets to perform the MVTR (Moisture vapor transfer rate).

The desiccant tablets are most carefully formulated to provide optimum moisture control in the most demanding applications.



Calcium Chloride:

MVTR Testing is done according to USP 671, for Plastic bottles: For the same we have Calcium Chloride to perform the MVTR (Moisture vapor transfer rate).

Du pont stain: Dupont Fibre Identification Stain No.4.

As per USP 670 (**Auxiliary Packaging Components**) filling material like COTTON, RAYON and POLYESTER must pass few of the identification tests, one of them is a test with Dupont Fibre Identification Test. Different fibres gives different color variation with Dupont Fibre Identification Stain No. 4. Like

Fiber: Cotton | Rayon | Polyester | **Color:** Green | Blue-green | Pale orange

DESICCANTS FOR NON-REGULATORY / DOMESTIC MARKET

They are available in two type of packaging:

- 1) Composite Paper
- 2) Non-Woven Fabric.

Available Sizes:

0.5 gm, 1 gm, 2 gm, 5 gm, 10 gm, 20 gm, 25 gm, 50 gm, 100 gm.





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