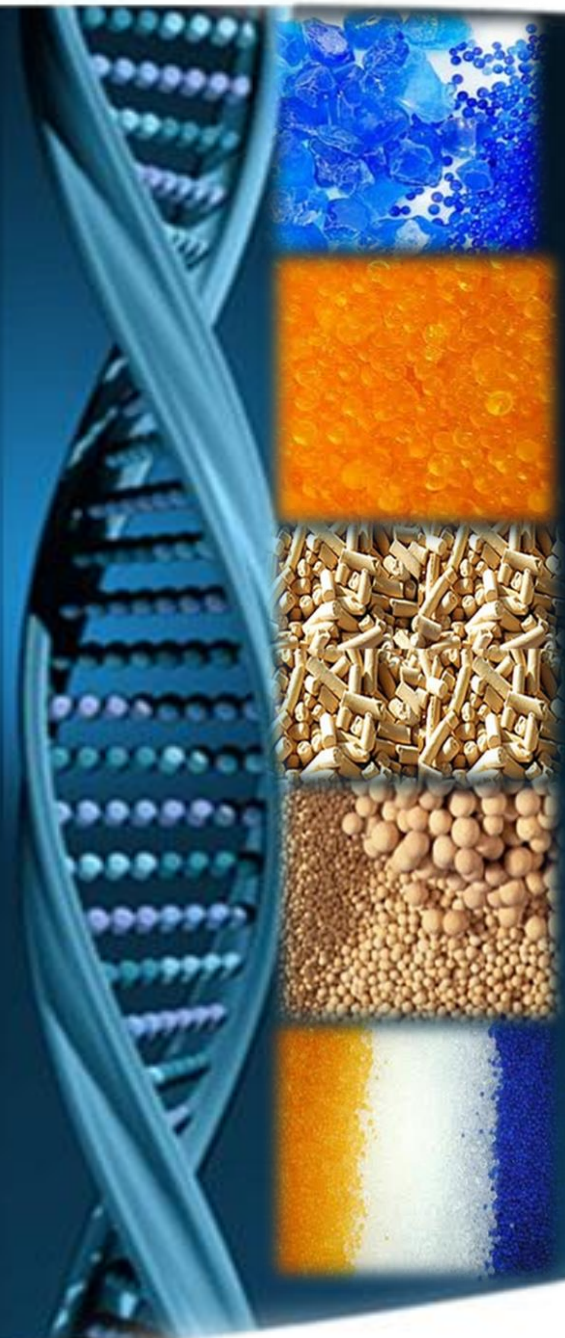


# SORBEAD INDIA

## Manufacturer & Supplier of Adsorbents & Desiccants



# Our Profile

- Established in the year 1996 by **Mr. Rajesh Galgalikar**.
- An ISO 9001 certified company registered under BSI & ANAB.
- Specializes in and offers one of the broadest and diversified spectrum of packaging products & desiccants.



- Manufacturing unit located at Vadodara, Gujarat, India which manufactures “Adsorbents” such as Activated Alumina, Molecular Sieves & Silica Gel Chromatography products & Beads.

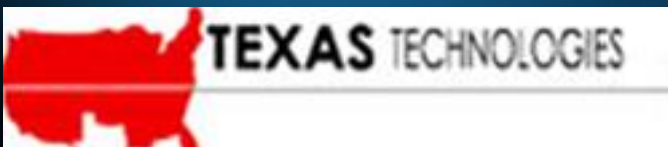




# Our Partners



- Desiccare Inc
- Carolina Absorbent Cotton
- CSP Technologies
- Texas Technologies
- Montebello for Desiccants & Packaging Tubes



# Industries Served by Us

- ➔ Agriculture
- ➔ Aerospace and Aviation
- ➔ Chemicals and Coatings
- ➔ Water filtration
- ➔ Shipping and Storage
- ➔ Computers
- ➔ Defense Industry
- ➔ Refrigeration
- ➔ Food and Beverages
- ➔ Medicine and Pharmaceuticals
- ➔ Medical Instruments
- ➔ Gas processing and Petroleum Refining
- ➔ Packaging & Consumer Products
- ➔ Photo Equipment Power Generation
- ➔ Public utilities
- ➔ Cosmetics and Personal Care items
- ➔ Electronics & Semi-conductors





# Our Products

- Molecular Sieve
- Activated Alumina Balls
- Silica Gel
- Chromatography Adsorbents
- Desiccants
- Desiccant Canisters
- Desiccant Tablets
- Desiccant Vials
- Humidity Indicating Cards
- Moisture Absorbing Activ Films
- Pharmaceutical Coils
- Foam Plugs
- Container Desiccants
- Oxygen Absorbers
- Aluminium & Laminated Tubes
- LDPE Bags





# Molecular Sieve (Zeolite)

- ➔ Molecular Sieve 13X (Beads, Pellets)
- ➔ Molecular Sieve 3A (Beads, Pellets & Powder)
- ➔ Molecular Sieve 4A (Beads, Pellets & Powder)
- ➔ Molecular Sieve 5A (Beads, Pellets)



# Molecular Sieve

## Applications

- Catalyst Carrier
- Commercially used for gas drying
- Air plant feed purification
- Simultaneous removal of  $H_2O$  and  $CO_2$
- Co-adsorption of  $CO_2$  and  $H_2O$  and  $H_2O$  and  $H_2S$
- Liquid Hydrocarbon and natural gas sweetening
- $H_2S$  and Mercaptan removing
- Powder Coating
- As Desiccant for medical and air compressor systems
- Aromatics and branched-chain hydrocarbons.
- Higher Adsorption speed & anti-contaminative resistance
- More cyclic time and longer work-span
- Mainly used in separation of normal and isomeric alkane, pressure swing adsorption (PSA) for gases
- Used for removal of water and Carbon-Di-Oxide from air
- Effective in dehydrating inner space of insulating glass windows



# Activated Alumina Balls

## Applications & Use:

- ▶ Water fluoride and arsenic removal
- ▶ Air plant feed purification
- ▶ It is an Aluminum Oxide which is highly porous and which exhibits tremendous surface area
- ▶ Alumina Balls are resistant to thermal shocks & abrasions
- ▶ Drying of organic liquids like LPG, Propylene, Butane, Steam Cracked liquids, Reforming Recycle Gas, Cyclo-Hexane, Gasoline, Chloro and Fluoro Hydrocarbons, Solvents Drying, etc.





# Silica Gel

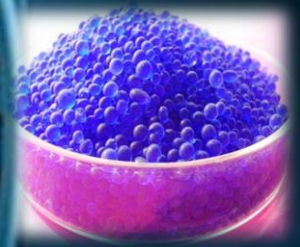
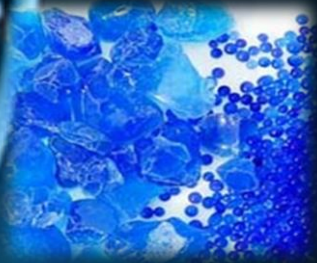
- ➔ Silica Gel Blue (Beads, Crystals)
- ➔ Silica Gel White (Beads, Crystals & Powder)
- ➔ Silica Gel Orange (Beads)



# Silica Gel Blue

## Applications

- ▶ Silica Gel Blue is a dark blue when free from moisture, they turn light blue gradually and needs to be replaced or regenerated when turned pink
- ▶ They are dark blue when free from moisture, they turn light blue gradually and needs to be replaced or regenerated when turned pink
- ▶ **They are available in two types :**
  - **Blue Spherical Beads – Round Type:**
    - 1-2mm, 1-3mm, 2-5mm, 3-5mm, 3-6mm, 4-8mm
  - **Blue Granular Cubes Type:**
    - 2-4mm, 2-6mm, 3-5mm, 4-8mm





# Silica Gel Orange

## (Indicating Type Silica Gel)

- They are dark Orange when free from moisture, they gradually turn to Orange-Yellow when put to use and when they turn green it is a ready indication that it is saturated and needs to be replaced or regenerated
- Used for drying & cleaning of Air and Gases, Drying of analytical samples, Solvents, Synthetic products, Drying & storage of Flowers and Seeds
- Orange semi-transparent glassy substance impregnated with an organic indicator which is rated as completely safe
- True replacement to Orange Beads in Silica Gel Transformers Breathers and regeneration process.
- **Orange Spherical Beads - Round Type:**
  - 2-5mm, 3-5mm, 4-8 mm



# Silica Gel White

## (Non-Indicating Type)

➔ Synthetically produced Amorphous form of Silicon Di Oxide in the form of hard irregular granules (appearance like crystals or hard regular beads)

➔ Water molecules adheres to the gel surface because it exhibits a lower vapor pressure than the surrounding air.

➔ Used for Drying and cleaning of air and gases, analytical, samples, solvents, synthetic products, Optical instruments

### ➔ **White Silica Gel Beads & Crystals Sizes:**

#### ➤ **White Spherical Beads – Round Type:**

- 1-2mm, 1-3mm, 2-4mm, 2-5mm, 3-5mm, 3-6mm, 4-8mm

#### ➤ **White Granular Cubes Type:**

- 1-3 mesh, 3-4 mesh, 3-8 mesh, 5-8 mesh





# Silica Gel Powder

(White / Non-Indicating Type)



- ➔ **Silica Gel White Beads Powder** use for Column Chromatography, Thin Layer Chromatography, Protein & Vitamin Chromatography, Adsorbents Chromatography, Flash Chromatography use in Pharmaceutical & Chemical Industries.
- ➔ We manufacture 100% pure Silica Gel Powder in different sizes.

# Silica Gel Packets

## (Desiccant Packets, Pouch and Bags)

- ▶ We are supplies USFDA Approved, DMF Free and Non-Toxic **Silica Gel Packets** like Sorbi Packs, Pillow Pak & Unit Pak in different packaging materials like Tyvek Paper Bags, Polyester Bags, Cotton Cloth Bags, Transparent Paper and Non-Woven Bags
- ▶ We supplies **Silica Gel Desiccant Pouches** in continues strips also.
- ▶ Get different size of Silica Gel Packets use in Electronics, Cloths, Pharmaceutical, Agriculture, Food and Chemical industries.





# Chromatography Adsorbents

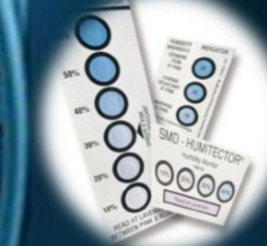


- ▶ We are manufacturer and supplier of Silica Gel & Aluminium Oxide Powder for Chromatography.
- ▶ **Aluminium Oxide Powder** a white to off-white fine grained powder which is a highly porous form of Aluminum Oxide. Surface is more polar than that of Silica Gel and reflecting the empirical nature of Aluminum has both acidic and basic characteristics.
- ▶ All Chromatographic methods with the exception of TLC use columns for the separation process.
- ▶ Silica Gel and Alumina are two adsorbents commonly used by the organic chemist for column chromatography. They are sold in different mesh sizes like Silica Gel Gravity grades 35-70, 60-120, 100-200, 200-300 & Flash grade 230-400 mesh.

# Desiccants

## Desiccants Products :

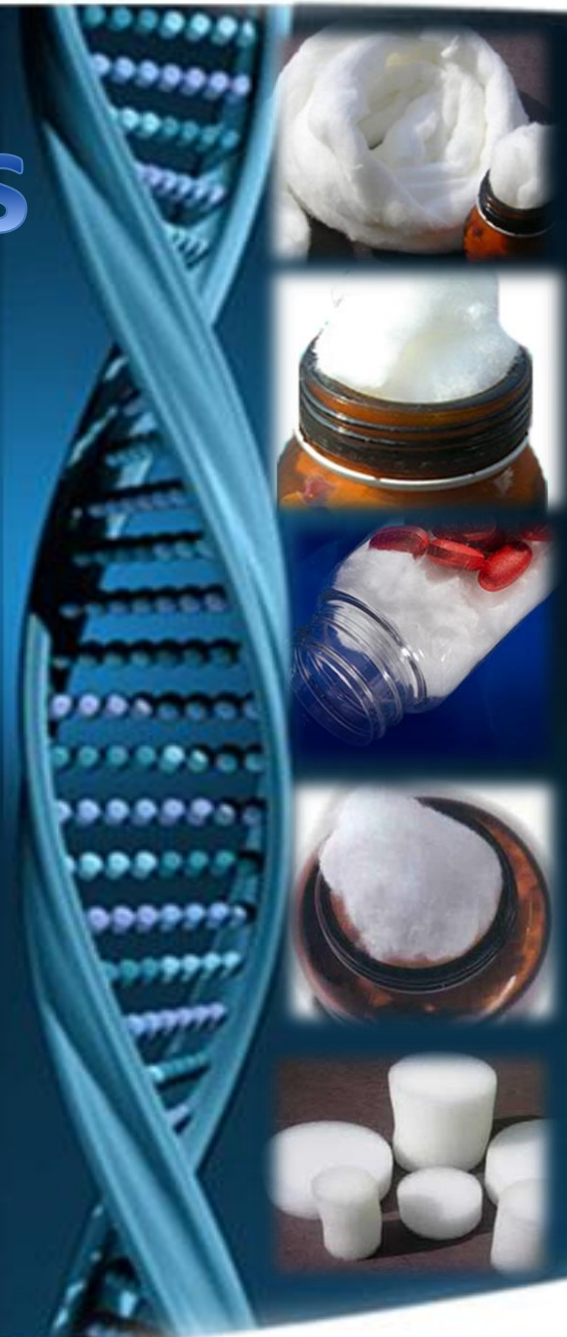
- ➔ Desiccant Canisters
- ➔ Desiccare Pillow Pak
- ➔ Desiccare Unit Pak
- ➔ Desiccant Tablets
- ➔ Desiccant Vials
- ➔ Humidity Indicator Cards
- ➔ Moisture Absorbing Activ-Films





# Pharmaceutical Coils

- ➡ **Pharmaceutical Coils**
- ➡ **Cotton Fiber Coils**
- ➡ **Rayon Fiber Coils**
- ➡ **Polyester Fiber Coils**
- ➡ **Foam Plugs**



# Container Desiccants

## Cargo Dry Pak

- ➔ Inhibits the formation of mold, mildew, rust and corrosion
- ➔ Enables shipping goods without the threat of “Container Rain”
- ➔ Provides 50 days or more of moisture protection
- ➔ Used in Ocean, truck, rail and air shipping containers
- ➔ Protection of textiles, leather goods, shoes, furniture, food products, grains, feeds, pet foods, canned foods and bottled products





# Oxygen Absorbers

## Oxygen Absorbing Packets (O-Busters)

➔ **O-Busters** are designed to remove the oxygen content inside any packaged environment.

➔ **Oxygen Absorber Packets** are FDA approved and extend the product shelf life.

### O- Busters are used with the following products:

- Baked goods
- Dried fruits and vegetables
- Spices, seasonings and herbs
- Coffee, tea and cocoa
- Processed and dried meals
- Pharmaceuticals and vitamins
- Diagnostic kits and devices
- Rice, Grain, Noodles, Pasta, Seeds, Pet foods and Nuts



# Aluminium & Laminated Tubes

- ➔ Tube properties with the look and feel of plastic. Produced with the industry's most aesthetic minimal seam, providing maximum space for graphics (wide variety – 6 colors) and brand decoration
- ➔ It virtually prevents transfer of light, air and Moisture. Our capabilities allows us to make a tube as small as ½ inch (12.7 mm) in diameter. Has high gloss protective lacquer, protects flavor and fragrance with reduced adsorption
- ➔ Finishes include deep vibrant colors, sophisticated screened shades, a brilliant paralyzed look and the sleek metallic finish of clear enamel, unique to aluminium tubes





# LDPE Bags

➔ **SORBEAD INDIA** committed to use of safest and ultra-modern technology for manufacture of films and liners customized for the healthcare industry

➔ **Pharma Grade Bags – API, Bulk Drugs, Tablets & Capsules**

- ISO 9001 certified, contains Drug Master file
- FDA approved raw materials
- Quality systems with full traceability, incoming QA, Material certifications and retention samples
- In-house testing capabilities including FT –IR, Tensile, seal and burst strength
- Responsive R&D – Product development to fit
- Meeting specific customer needs, technical services





# Products Pictures





How can we be of assistance ?  
Any Questions that we can answer?



# C CONTACT US

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