

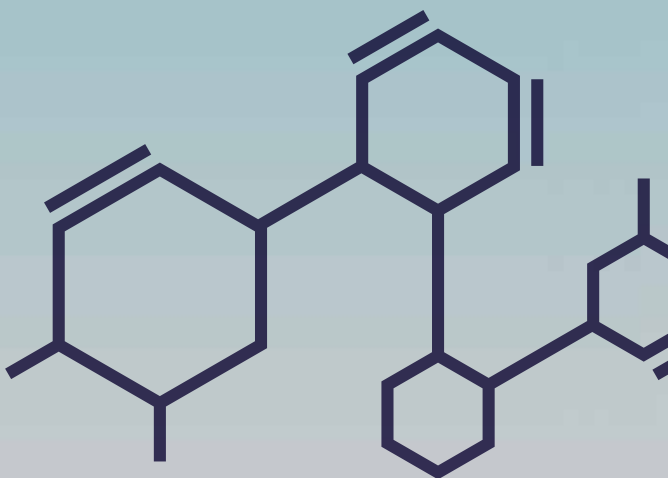


®

HENGYE

A Trusted Solution Provider

**Adsorbents &
Catalysts Industry**



How Can We Help You?

Designed for Industry Standards
Maximize Stream Efficiency
Trusted Global Provider

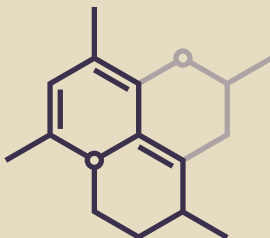
Custom Products

Our state-of-the-art facilities are equipped to manufacture tailored products that meet precise customer and market requirements:

- Multiple mesh sizes available
- Beads (spheres) or pellets (extrudates)
- Optimized physical and chemical properties

We Supply & Support

- Reliable Products that Meet or Exceed the Specification Sheet
- Expert Design Engineering for Bed-Loading Calculation of PSA & TSA Units
- Product Performance Analysis
- Remote & On-site Technical Assistance
- Material Application Guidance
- Change-Out & Turnaround Services
- Breakthrough Testing
- Systems Training
- Custom Advice & Industry Insights

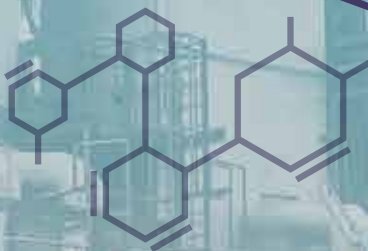


Warehouse & Shipping Inventory Locations



Packaging

- *Small bags*
- *Drums*
- *Super sack options*
- *Custom packaging available*



Shipping and Logistics

- *Flexible Shipping Options*
- *Cost Effective Pricing*
- *Fast Processing:
1 Business Day*
- *Direct Drop-Shipping Service*



Air Separation

Pressure Swing Adsorption (PSA) is widely used in air separation plants and tends to replace the traditional cryogenic air separation because of its low investment, low energy consumption, and easy operation.

Oxygen Generation

Industrial Oxygen

- 13X Molecular Sieve
- SodiumX Molecular Sieve
- LithiumX Molecular Sieve
- 5A Molecular Sieve
- Specialized Molecular Sieve

Medical Oxygen

- SodiumX Molecular Sieve
- LithiumX Molecular Sieve

Nitrogen Production

- Carbon Molecular Sieve 200, 220, 240, 260

Cryogenic Air Pre-Purification

- 13X Molecular Sieve

Industrial Drying

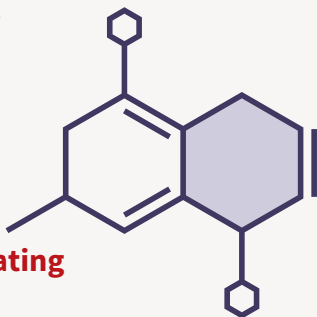
Desiccant Dryers are used to dehydrate atmospheric air or pure gases including H_2 , N_2 , O_2 , CO_2 , for use in pneumatic equipment. It is important for these gases to be purified and dehydrated before use to prevent corrosion and damage to machinery.

Desiccant Dryers

- Activated Alumina
- 4A Molecular Sieve

Refrigerant Drying

Solvent Drying & Treating



Molecular Sieve

ISO Certified! We offer a wide variety of size and functional options with our Molecular Sieve products.

Standard Molecular Sieve

- 3A Molecular Sieve
- 4A Molecular Sieve
- 5A Molecular Sieve
- 13X Molecular Sieve
- Carbon Molecular Sieve



Specialized Molecular Sieve

Activated Alumina

Activated alumina offers a high adsorption capacity for both static and dynamic adsorption processes. It is used in chemical production, pharmaceuticals, and in static or dynamic dehydration applications.



Physical Adsorption

Used in both Pressure Swing Adsorption (PSA) and Thermal Swing Adsorption (TSA) applications and can handle either gas or liquid phase processes:

- | | |
|----------------------------|------------------------|
| • Water Purification | • Wastewater Treatment |
| • Bulk Dehydration | • Desiccant Air Dryers |
| • Cryogenic Air Separation | • Air Purification |

Chemical Adsorption

Promoters are combined with Alumina to target contaminants that Alumina would not normally be able to remove. Used in:

- | | |
|----------------------------|--|
| • Sulfur Removal | • COS, H ₂ S, CS ₂ |
| • Gas Sweetening | • Adsorption |
| • Mercaptan Removal | • Natural Gas Liquids |
| • Natural Gas Purification | • Purification |

Renewable Fuels

Renewable fuels, like ethanol, landfill gas, and hydrogen, are derived from renewable feedstocks. Specialized adsorbents are required to remove contaminants for purification.

Ethanol Dehydration Hydrogen Purification

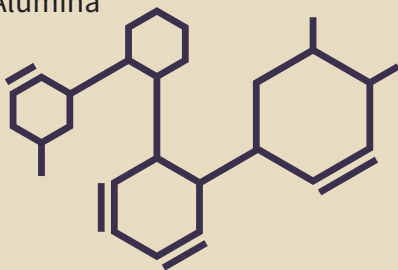
- 3A Molecular Sieve
- 13X Molecular Sieve
- 5A Molecular Sieve

H₂S Removal

- 13X Molecular Sieve

Landfill Treatment & Siloxane Removal

- 13X Molecular Sieve
- Activated Alumina



Natural Gas

Natural gas undergoes a range of purification processes in order for pipeline quality approval. Our products can be used for purification in:

Dehydration

- 3A Molecular Sieve
- 4A Molecular Sieve
- Activated Alumina

CO₂ & H₂S Removal

- 4A Molecular Sieve
- 5A Molecular Sieve
- 13X Molecular Sieve

Nitrogen Rejection Units

- 13X Molecular Sieve
- Carbon Molecular Sieve 200, 220, 240, 260

Refining

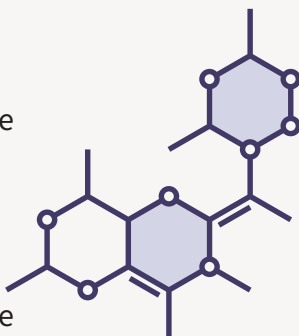
In refining, feedstocks often contain impurities requiring removal. Molecular Sieve polishes hydrocarbon streams, ensuring specifications are met and maximizing product value.

LPG Sweetening

- 13X Molecular Sieve

Isomerization

- 4A Molecular Sieve
- 5A Molecular Sieve
- 13X Molecular Sieve



Hydrogen Purification

- HYD05C (4x8, 8x12, 1/16 Inch) 5A Sieve
- HYD10A 13X Sieve

Sulfur Rejection Units

Catalytic Reforming

Drying of Reforming & Hydrocracking Gas

- HYG04DG 4A Sieve

Petrochemicals

Our adsorbents help petrochemical plants treat hydrocarbon and olefin feeds by removing impurities including oxygenates, sulfur, and water.

Olefin Treating

With Olefins

- 3A Molecular Sieve
- 5A Molecular Sieve
- 13X Molecular Sieve

No Olefins Present

- 4A Molecular Sieve

Cracked Gas Drying

- 3A Molecular Sieve

Ethylene Purification

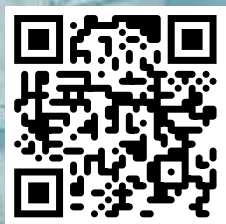
- 4A Molecular Sieve
- 5A Molecular Sieve
- 13X Molecular Sieve

About Us

At HengYe® Inc., we are committed to meeting the ever-evolving adsorption needs of industries worldwide. With our comprehensive services — including custom designs, bed sizing, technical support, optimization, and turnaround solutions — we deliver expertise every step of the way.

Our expertly engineered products are designed to exceed industry standards, ensuring maximum efficiency and value for your product streams. Partner with HengYe® Inc. for innovative solutions and the confidence to elevate your operations to new heights!

hengyeinc.com



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