

Adsorbent Desiccants

Van Air Systems is the leading source of desiccants used for drying compressed air and gas.



Activated Alumina

Activated Alumina is a porous form of aluminum oxide. It has a high surface area which absorbs vapors without any change in form. Activated Alumina will not soften or disintegrate if immersed in water. Dew points of -40°F and lower may be achieved with activated alumina depending on the dryer design and operating conditions.

Features:

- High adsorption capacity
- Low abrasion
- Resists slugs of liquid water
- High crush strength
- Uniform bead sizes



Silica Gel

Silica Gel is a bead consisting of 97-100% silica. It is available in two types: indicating a blue translucent bead and non-indicating Sorbead-R™. Sorbead-R™ is designed to perform in difficult environments and provide a high service life. Dew points of -40°F and lower may be achieved with silica gel depending on dryer design and operating conditions.

Features:

- High moisture retention capacity under dynamic conditions
- Uniform bead shape
- Provides visual check of desiccant condition, indicating type only (blue = dry; pink = wet)



Molecular Sieve


Molecular sieve is a sodium aluminosilicate. Van Air Systems offers molecular sieve with a 4 angstrom pore size (4A). It has a fixed pore size according to the material specified, 4 Angstrom being the most common. Molecular Sieve is normally used for special process applications. Pressure dew points to -100°F may be achieved with molecular sieve depending on the dryer design and operating conditions.


Features:


- Uniform capacity
- Round bead

Physical Properties & Packaging


ACTIVATED ALUMINA

1/8" (2-5mm)	Part No.	Color & Form	Bulk Density	Crush Strength	Surface Area	Package Size
	33-0237	White bead	48lbs/ft ³	17-30 lbs	1.74 x 10 ⁶ sq ft/lb.	25 lb pail
	33-0238	White bead	48lbs/ft ³	17-30 lbs	1.74 x 10 ⁶ sq ft/lb.	50 lb bag
	33-0320	White bead	48lbs/ft ³	17-30 lbs	1.74 x 10 ⁶ sq ft/lb.	375 lb steel drum
	33-0266	White bead	48lbs/ft ³	17-30 lbs	1.74 x 10 ⁶ sq ft/lb.	2000 lb bulk sack

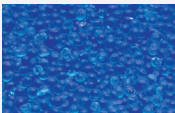
3/16" (4-8mm)	Part No.	Color & Form	Bulk Density	Crush Strength	Surface Area	Package Size
	33-0370	White bead	48 lbs/ft ³	45-60 lbs	1.65 x 10 ⁶ sq ft/lb	25 lb pail
	33-0367	White bead	48 lbs/ft ³	45-60 lbs	1.65 x 10 ⁶ sq ft/lb	50 lb bag
	33-0371	White bead	48 lbs/ft ³	45-60 lbs	1.65 x 10 ⁶ sq ft/lb	350 lb steel drum
	33-0372	White bead	48 lbs/ft ³	45-60 lbs	1.65 x 10 ⁶ sq ft/lb	2000 lb bulk sack

1/4" (5-10mm)	Part No.	Color & Form	Bulk Density	Crush Strength	Surface Area	Package Size
	33-0240	White bead	48 lbs/ft ³	50-70 lbs	1.59 x 10 ⁶ sq ft/lb	25 lb pail
	33-0241	White bead	48 lbs/ft ³	50-70 lbs	1.59 x 10 ⁶ sq ft/lb	50 lb bag
	33-0321	White bead	48 lbs/ft ³	50-70 lbs	1.59 x 10 ⁶ sq ft/lb	375 lb steel drum
	33-0267	White bead	48 lbs/ft ³	50-70 lbs	1.59 x 10 ⁶ sq ft/lb	2000 lb bulk sack


SILICA GEL SORBEAD-R® NON-INDICATING

1/8" (3-5mm)	Part No.	Color & Form	Bulk Density	Package Size
	33-0315	Translucent bead	50 lbs/ft ³	5 lb pail
	33-0243	Translucent bead	50 lbs/ft ³	25 lb pail
	33-0244	Translucent bead	50 lbs/ft ³	50 lb bag
	33-0245	Translucent bead	50 lbs/ft ³	330 lb steel drum

SILICA GEL INDICATING

1/8" (2.5-3.5mm)	Part No.	Color & Form	Bulk Density	Package Size
	33-0316	Blue bead to pink bead	45 lbs/ft ³	5 lb pail
	33-0246	Blue bead to pink bead	45 lbs/ft ³	25 lb pail
	33-0247	Blue bead to pink bead	45 lbs/ft ³	50 lb bag
	33-0248	Blue bead to pink bead	45 lbs/ft ³	330 lb steel drum

MOLECULAR SIEVE

1/8" (2-5mm)	Part No.	Color & Form	Bulk Density	Surface Area	Pore Size	Package Size
	33-0317	Off white/tan bead	40 lbs/ft ³ (+/- 10%)	3.67 x 10 ⁶ sq ft/lb	4Å	5 lb pail
	33-0249	Off white/tan bead	40 lbs/ft ³ (+/- 10%)	3.67 x 10 ⁶ sq ft/lb	4Å	25 lb pail
	33-0265	Off white/tan bead	40 lbs/ft ³ (+/- 10%)	3.67 x 10 ⁶ sq ft/lb	4Å	50 lb bag
	33-0250	Off white/tan bead	40 lbs/ft ³ (+/- 10%)	3.67 x 10 ⁶ sq ft/lb	4Å	330 lb steel drum

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Adsorbent Desiccant - PDF Downloads

Material Safety Data Sheets

Activated Alumina



This is a Material Safety Data Sheet (MSDS) for Activated Alumina. It includes sections for:

- Section 1: Identification** - Product name, manufacturer, and contact information.
- Section 2: Hazardous Ingredients** - A table listing the chemical composition and their respective hazard classifications.
- Section 3: Hazards** - A list of potential health and environmental hazards.
- Section 4: First Aid** - Instructions for immediate medical response.
- Section 5: Fire Fighting** - Information on fire risks and firefighting procedures.
- Section 6: Accidental Release** - Guidelines for handling spills and leaks.
- Section 7: Handling and Storage** - Recommended practices for safe use and storage.
- Section 8: Exposure Controls** - Information on personal protective equipment (PPE) and engineering controls.
- Section 9: Physical and Chemical Properties** - Key characteristics of the material.
- Section 10: Stability and Reactivity** - Information on the material's stability under various conditions.
- Section 11: Toxicological Information** - Data on the material's toxicity.
- Section 12: Ecological Information** - Environmental impact data.
- Section 13: Disposal** - Instructions for the proper disposal of the material.
- Section 14: Transport Information** - Details on shipping and transportation requirements.
- Section 15: Regulatory Information** - Relevant regulatory references.
- Section 16: Other Information** - Additional safety notes and references.

Molecular Sieve



This is a Material Safety Data Sheet (MSDS) for Molecular Sieve. It includes sections for:

- Section 1: Identification** - Product name, manufacturer, and contact information.
- Section 2: Hazardous Ingredients** - A table listing the chemical composition and their respective hazard classifications.
- Section 3: Hazards** - A list of potential health and environmental hazards.
- Section 4: First Aid** - Instructions for immediate medical response.
- Section 5: Fire Fighting** - Information on fire risks and firefighting procedures.
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- Section 16: Other Information** - Additional safety notes and references.

Silica Gel



This is a Material Safety Data Sheet (MSDS) for Silica Gel. It includes sections for:

- Section 1: Identification** - Product name, manufacturer, and contact information.
- Section 2: Hazardous Ingredients** - A table listing the chemical composition and their respective hazard classifications.
- Section 3: Hazards** - A list of potential health and environmental hazards.
- Section 4: First Aid** - Instructions for immediate medical response.
- Section 5: Fire Fighting** - Information on fire risks and firefighting procedures.
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