

Adsorbent Desiccant

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

Adsorbent desiccant from Van Air Systems is used for point-of-use drying applications as well as for regenerative drying applications.

Activated Alumina is a porous form of aluminum oxide. It has a high surface area which adsorbs vapors without any change in form.

Silica Gel is a bead consisting of 97-100% silica. Van Air offers a high quality color indicating blue translucent bead. Dew points of -40°F and lower may be achieved with silica gel depending on dryer design and operating conditions.

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 and 4 Angstrom is the most common. Molecular Sieve is normally used for special process applications.





BENEFITS OF THE ADSORBENT DESICCANT

Activated Alumina

FEATURES & BENEFITS

- · Low to zero dust discharge
- High adsorption capacity
- Low abrasion
- · Resists slugs of liquid water
- · High crush strength
- Ability to achieve -40°F and lower dew points

APPLICATIONS

• Regenerative Dryers

2-5 Year Service Life Capability

- Acid Removal
- Process Stream Purification
- Hydrocarbon Adsorption

Silica Gel

FEATURES & BENEFITS

- High moisture retention capacity under dynamic conditions
- Ability to acheive -40°F and lower dew points
- · Uniform bead shape
- Provides visual indication of desiccant condition, indicating colors (blue = dry; pink = wet)

Consists Of 97-100% Silica

APPLICATIONS

- Industrial Compressed Air Systems
- Tool Preservation

Molecular Sieve

FEATURES & BENEFITS

- Uniform capacity
- Round bead
- High moisture retention
- Produces a -100°F dew point

Effective In Special Process Applications

APPLICATIONS

- Petroleum Industry
- Gas Stream Purification
- Chem Labs
- Liquid Natural Gas Plants

Physical Properties

ACTIVATED ALUMINA				
1/8" (2-5mm)	Color & Form White bead	Bulk Density 48lbs/ft³	Crush Strength 17-30 lbs	Surface Area 1.74 x 10° sq ft/lb.
3/16" (4-8mm)	White bead	48 lbs/ft ³	45-60 lbs	1.65 x 10 ⁶ sq ft/lb
1/4"(5-10mm)	White bead	48 lbs/ft ³	50-70 lbs	1.59 x 10 ⁶ sq ft/lb
SILICA GEL	Color & Form	Bulk Density	Crush Strength	Surface Area
1/8" (2-5mm)	Blue to Pink	45 lbs/ft³	N/A	1/8" (3-5mm)
MOLECULAR SIEVE				
	Color & Form	Bulk Density	Crush Strength	Surface Area
1/8" (2-5mm)	Off white/tan bead	40 lbs/ft³ (+/- 10%)	100-120 lbs	3.67x 10 ⁶ sq ft/lb

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Adsorbent Desiccant MSDS Downloads

Material Safety Data Sheets

Activated Alumina



Molecular Sieve



Silica Gel

