

### **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**

Low Dew Point // Reliable

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### **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

### 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)

### **Molecular Sieve**

#### **FEATURES & BENEFITS**

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

#### 2-5 Year Service Life Capability

#### **APPLICATIONS**

- Regenerative Dryers
- Acid Removal
- Process Stream Purification
- Hydrocarbon Adsorption

#### Consists Of 97-100% Silica

#### **APPLICATIONS**

- Industrial Compressed Air Systems
- Tool Preservation

#### 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/ft <sup>3</sup>	Crush Strength	<b>Surface Area</b> 1.74 x 10 <sup>s</sup> sq ft/lb.
3/16" (4-8mm)	White bead	48 lbs/ft <sup>3</sup>	45-60 lbs	1.65 x 10 <sup>6</sup> sq ft/lb
1/4"(5-10mm)	White bead	48 lbs/ft <sup>3</sup>	50-70 lbs	1.59 x 10 <sup>6</sup> sq ft/lb
SILICA GEL	Color & Form	Bulk Density	Crush Strength	Surface Area
SILICA GEL 1/8" (2-5mm)	Color & Form Blue to Pink	Bulk Density 45 lbs/ft <sup>3</sup>	Crush Strength	Surface Area 1/8" (3-5mm)
			-	
1/8" (2-5mm)			-	

2950 Mechanic Street, Lake City, PA 16423, USA | Toll Free Phone 800-840-9906 | Corporate Fax 814-774-0778 | Order Entry Fax 814-774-3482



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# **Adsorbent Desiccant MSDS Downloads**

#### **Material Safety Data Sheets**

Activated Alumina Molecular Si

Silica Gel

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