

Deliquescent Desiccants

Van Air Systems is the original and leading manufacturer of tableted deliquescent desiccants for drying compressed air and natural gas.

FEATURES

Energy Free

Dependable

Prevent Condensation

Low Maintenance



Deliquescent Desiccant

Deliquescent desiccants are a dependable, cost-effective, and energy-free tool for a wide range of drying applications.

With more than 65 years of experience developing desiccant formulas at its production facilities in Lake City, Pennsylvania, Van Air Systems is the original and leading manufacturer of deliquescent desiccants for drying compressed air and gases. Deliquescent desiccants are a dependable, cost-effective, and energy-free tool for a wide range of drying applications.

What is Deliquescent desiccant? Deliquesce means to dissolve. A desiccant is a drying agent. So deliquescent desiccant is a drying agent that dissolves.

Choosing the right desiccant.

With vapor attracting properties, deliquescent desiccants are ideal for drying compressed air and other gases and preventing the harmful effects of moisture. It's important to choose the right grade of deliquescent desiccant. Van Air Systems offers four grades of deliquescent desiccant. Dry-O-Lite®, which is used for drying compressed air. Our other desiccants SP, 10BF, and 4UF are all typically selected for natural gas dehydration applications. Contact us for more information on which desiccant would be best for your application.



Applications:

- Abrasive Blasting & Painting
- Portable Air Drying
- Ready-Mix & Concrete Plants
- Wood Products
- Fuel Gas
- Low Pressure Gases

DRY-O-LITE®/ GasDry™ Prime

Most Affordable Industry Leading Desiccant

DRY-O-LITE® is the industry-leading, deliquescent desiccant. It's a chemical drying agent specifically formulated for Van Air Systems Single Tower Deliquescent Dryers and Natural Gas Pipeline Dryers (PLD Series).

FEATURES & BENEFITS

- Low cost
- Energy Free
- Environmentally safe
- Up to 20°F Dew Point Suppression
- 55% Relative Humidity

Physical Properties

Color and form	White tablet
Size	3/4" diam x 5/8" height
Bulk density	72± 3 lbs/ft ³
Crush Strength	60-100 lbs.

Dew Point Performance

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Suppression
100°F	80°F	20°F
90°F	70°F	20°F
80°F	60°F	20°F
70°F	51°F	19°F
60°F	42°F	18°F
50°F	32°F	18°F



Applications:

- High Pressure - Low Temperature Sales Gas
- Fuel Gas & Biogas Dehydration
- Pre Absorbing for higher grades of desiccant

SP/GasDry™ Peak

Peak Performance For Natural Gas Dehydration

SP/ GasDry™ Peak is a chemical drying agent formulated primarily for the dehydration of natural gas. SP is recommended for the first stage of a multiple vessel drying system.

FEATURES & BENEFITS

- For operating temperatures 70°F and lower
- Inhibits natural gas hydrate formation
- Prevents gas line freeze-ups
- Up to 27°F Dew Point Suppression
- 33% Relative Humidity

Physical Properties

Color and form	White tablet
Size	1" diam x 3/4" height
Bulk density	55± 3 lbs/ft ³
Crush Strength	60-100 lbs.

Dew Point Performance

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Suppression
70°F	43°F	27°F
60°F	36°F	24°F
55°F	32°F	23°F
45°F	25°F	20°F



10BF/GasDry™ Max

Maximum Performance For Drying Compressed Air & Natural Gas

10BF®/GasDry™ Max is the primary desiccant choice for Natural Gas applications. 10BF/Gas Dry Max has the highest moisture absorbing capacity per pound of any other deliquescent desiccant while still achieving very low moisture content.

FEATURES & BENEFITS

- For operating temperatures 100°F and lower
- Replaces TEG systems
- Prevents air and gas line freeze-ups
- 45-63°F dewpoint suppression
- 13% Equilibrium RH

Physical Properties

Color and form	White tablet
Size	1" diam x 3/4" height
Bulk density	60± 3 lbs/ft ³
Crush Strength	100-120 lbs.

Applications:

- Meets Pipeline Gas Moisture Specifications
- Fuel Gas & Biogas Dehydration
- Instrument Gas Dehydration
- Remote Outdoor Locations Without Electricity

Dew Point Performance

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Suppression
100°F	37°F	63°F
90°F	30°F	63°F
80°F	23°F	57°F
70°F	16°F	54°F
60°F	9°F	51°F
50°F	2°F	48°F
40°F	-5°F	45°F

Dense tablet, no dust. *Deliquescent desiccants are environmentally safe and we guarantee performance!*



4UF/GasDry™ Ultimate

Ultimate Dewpoint Suppression

Natural gas or process gas dehydration at low pressures, low flow rates, and / or low temperatures can be very difficult. For these unique applications Gas Dry™ Ultimate/4UF was developed to meet low dew point requirements when other desiccants or glycols are ineffective.

FEATURES & BENEFITS

- 7 lbs H₂O/MMSCF gas is attainable @ 50 psig & 60°F.
- 20 lbs H₂O/MMSCF gas is attainable @ 25 psig & 80°F.
- Gas temperatures below freezing can be dried and still obtain a low equilibrium RH.
- 4% Equilibrium RH
- Can dry gas for a lower cost than glycol systems, in some applications.

Physical Properties

Color and form	White bullet shaped tablet
Size	3/8" diam x 1/2" height
Bulk density	80-85 lbs./cu. ft.

Dew Point Performance

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Suppression
100°F	14°F	86°F
90°F	8°F	82°F
80°F	2°F	78°F
70°F	-4°F	74°F
60°F	-11°F	71°F
50°F	-17°F	67°F
40°F	-24°F	64°F
30°F	-31°F	61°F

Applications:

- Meets Pipeline Gas Moisture Specifications
- Fuel Gas & Biogas Dehydration
- Instrument Gas Dehydration
- Lowers moisture content of Biogas
- Remote Outdoor Locations Without Electricity



How to use it?

Gas Dry™ Ultimate/4UF can be used by itself or in combination with other grades of deliquescent desiccant, such as Gas Dry™ Peak/SP or Gas Dry™ Max/10BF Desiccant. Consumption is reduced when the process gas flows through the lower grade desiccant prior to the highly absorbent Gas Dry Ultimate/4UF, resulting in lower operating cost.

Please contact Van Air Systems' Technical Applications Department to determine the best desiccant for your application.

Literature Downloads

Download at www.vanairsystems.com

Safety Data Sheet

Dry-O-Lite®

SP

10BF

4UF



Instructional Video

Deliquescent drying technology



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