



Deliquescent Desiccants

Tableted Desiccants for Drying
Compressed Air and Gas

FEATURES

Energy Free

20° to 63° dew point suppression

Prevents condensation

Low Maintenance



BENEFITS OF DELIQUESCENT DESICCANTS

Dependable // Environmentally safe // Cost-effective

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Deliquescent Desiccants from Van Air Systems

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 manufacture 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 produces three grades of deliquescent desiccant: Dry-O-Lite®, Special Purpose (SP) and 10BF. SP and 10BF are typically selected for natural gas dehydration applications. Dry-O-Lite® is used for drying compressed air.

Dry-O-Lite® 20°F dew point suppression

SP 30°F dew point suppression

10BF 63°F dew point suppression



Dry-O-Lite® is the leading deliquescent desiccant for compressed air systems. Dry-O-Lite® is most commonly used with D Series Deliquescent dryers. Dry-O-Lite® suppresses dew point by 20°F and establishes a 55% relative humidity. With no moving parts, a deliquescent dryer requires no power. Simply add new desiccant several times per year, and drain the vessel daily.

Deliquescent desiccant applications.

Biogas, landfill gas, pneumatic conveying, manufacturing, natural gas, wood products, mining, abrasive blasting and painting are all industries where deliquescent desiccants are relied upon to keep air and gas lines dry and moisture free.



Dense tablet, no dust. *Deliquescent desiccants are non-toxic and environmentally safe.*



Dry-O-Lite® is the industry-leading deliquescent desiccant. Van Air Systems has been developing and manufacturing deliquescent desiccant since 1944.



Water damage!

Water is a damaging by-product of air compression. A compressor draws in and concentrates atmospheric humidity. After the air cools and water vapor condenses.

Wet compressed air leads to product spoilage, frozen pipes, increased down time, corrosion and contaminated processes. Moisture separators, drop legs, and coalescing filters remove liquid water but not vapor. Only a dryer removes vapor and prevents further condensation. A dryer with deliquescent desiccant is the simplest way to remove vapor from compressed air. A deliquescent dryer has no moving parts and requires no power.



Deliquescent desiccants are produced by blending and pressing together various alkali and alkaline metal compounds. These materials are all hygroscopic, meaning they attract water.

Physical Properties & Package Sizing

DRY-O-LITE® 3/4" DIA x 5/8" HEIGHT



Part No.	Color & Form	Bulk Density	Crush Strength	Package Size
33-0311	White tablet	72 +/- 3 lbs/ft³	60-100 lbs	50 lb bag (22.7 kg)
33-0313	White tablet	72 +/- 3 lbs/ft³	60-100 lbs	50 lb pail (22.7 kg)
33-0203	White tablet	72 +/- 3 lbs/ft³	60-100 lbs	506 lb steel drum (230 kg)
33-0284	White tablet	72 +/- 3 lbs/ft³	60-100 lbs	2,000 lb bulk bag (907 kg)

DEW POINT PERFORMANCE

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Depression
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

SP 1" DIA x 3/4" HEIGHT



Part No.	Color & Form	Bulk Density	Crush Strength	Package Size
33-0328	White tablet	55 +/- 3 lbs/ft³	60-100 lbs	45 lb pail (20.4 kg)
33-0205	White tablet	55 +/- 3 lbs/ft³	60-100 lbs	50 lb bag (22.7 kg)
33-0283	White tablet	55 +/- 3 lbs/ft³	60-100 lbs	400 lb steel drum (180 kg)

DEW POINT PERFORMANCE

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Depression
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 1" DIA x 3/4" HEIGHT



Part No.	Color & Form	Bulk Density	Crush Strength	Package Size
33-0318	White tablet	60 +/- 3 lbs/ft³	100-120 lbs	7 lb pail (3.2 kg)
33-0232	White tablet	60 +/- 3 lbs/ft³	100-120 lbs	25 lb pail (11.3 kg)

DEW POINT PERFORMANCE

Inlet Temperature (saturated)	Outlet Dew Point	Dew Point Depression
100°F	37°F	63°F
90°F	30°F	60°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

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Deliquescent Desiccants - PDF Downloads

Material Safety Data Sheets

Dry-O-Lite®



SP



10BF



Instructional Video

Deliquescent drying technology

