

Hydro-Lith[®] E

Deliquescent For Gas Drying

DESCRIPTION

HydroLith E is produced as a eutectic in a novel process, developed and patented by Clearwater engineers. It eliminates many of the drawbacks that have been historically associated with conventionally produced gas drying tablets. Since a eutectic pellet represents a homogeneous new crystalline form, the problems of tablet compression, tablet disintegration and dusting are virtually eliminated.

HydroLith E has been developed to meet the economic, environmental and performance requirements of a more demanding gas processing market.

HydroLith E is engineered to meet dew point requirements where other desiccants can not. Its drying performance surpasses that of competitive lithium based drying tablets.

APPLICATION

HydroLith E should be used in a single pass, multistage, high pressure contactor. HydroLith E drying systems can be installed downstream of Desiccant RG (calcium chloride type) dryers to minimize the consumption of product.

PERFORMANCE

Outlet moisture levels from a HydroLith E drying tower are determined by the physical properties of the gas. Lower temperatures and higher pressures tend to improve performance, while the opposite is true for higher temperature and lower pressures.

ADVANTAGES

HydroLith E drying systems have several advantages over competitive gas drying options.

- DUSTING PROBLEMS ELIMINATED by unique pellet composition.
- CAKING & CHANNELING REDUCED or eliminated by fast deliquescent action.
- CLOSED DRYING SYSTEM-no emissions, no fuel consumption,-no environmental concerns.
- 20 lb MOISTURE/MMCF attainable at pressures as low as 50 psi at 60°F.
- 7 lb MOISTURE/MMCF attainable at pressures as low as 125 psi at 60°F.
- RECYCLABLE NON-HAZARDOUS -no waste or disposal.
- GREATER HYGROSCOPICITY means more water removed per pound of desiccant.

PHYSICAL PROPERTIES

Purity	99%
Appearance	White Tablet
Diameter	3/8"
Height	1/2"
Pellet Weight.....	~7.5 grams
Bulk Density	80-85 lbs./cu. ft.
pH (50% in solution)	3.0-4.0

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