



## 3A-EPG MOLSIV™ ADSORBENT

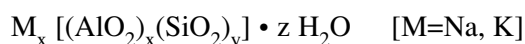
### DESCRIPTION

3A-EPG adsorbent, a potassium-exchanged form of the Type A molecular sieve, is an alkali metal aluminosilicate. 3A-EPG adsorbent will adsorb molecules with critical diameters up to 3 angstroms.

### APPLICATIONS

3A-EPG adsorbent is preferred for commercial dehydration of unsaturated hydrocarbon streams, such as cracked gas, ethylene, propylene, and cracked liquid olefins. The small pore size of 3A-EPG adsorbent essentially prevents co-adsorption of hydrocarbons.

### CHEMICAL FORMULA



### TYPICAL PHYSICAL PROPERTIES

	<u>1/16" Pellets</u>	<u>1/8" Pellets</u>	<u>1/8" TRISIV™ Pellets</u>	<u>1/4" TRISIV™ Pellets</u>
Bulk density (lbs/ft <sup>3</sup> )	41	41	40	38
Particle diameter (mm)	1.9	3.7	3.4	6.7
Crush strength (lbs)	10	20	15	30
Pore diameter (Å)	3	3	3	3
Heat of adsorption (Btu/lb H <sub>2</sub> O)	1800	1800	1800	1800
Equilibrium H <sub>2</sub> O capacity (wt-%)*	20	20	20	20
Water content, as shipped (wt-%)	<1.5	<1.5	<1.5	<1.5

Molecules adsorbed      Molecules with an effective diameter of <3 angstroms, e.g., H<sub>2</sub>O

Molecules excluded      Molecules with an effective diameter >3 angstroms, e.g., C<sub>2</sub>H<sub>4</sub>, CO<sub>2</sub>, and CH<sub>3</sub>OH

\* Measured at 17.5 mm Hg and 25 °C. The normal equilibrium water capacity in water saturated gas or liquid hydrocarbon is 22 wt-%.

### FOR MORE INFORMATION

For more information, contact your UOP representative or UOP's Adsorbents business at:

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