



## 13X-PG MOLSIIV™ ADSORBENT

### DESCRIPTION

13X-PG adsorbent, a sodium form of Type X molecular sieve, is an alkali metal aluminosilicate. 13X-PG adsorbent will adsorb molecules with critical diameters up to 10 angstroms.

### APPLICATIONS

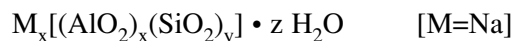
13X-PG adsorbent is used commercially for gas and liquid hydrocarbon dehydration and purification (removal of polar oxygenates and sulfur compounds). All molecules that can be adsorbed on molecular sieve Types 3A, 4A, and 5A can be adsorbed on 13X-PG adsorbent. In addition, it can adsorb molecules of larger critical diameters, such as aromatics and branched-chain hydrocarbons.

### TYPICAL PHYSICAL PROPERTIES

	<u>1/16" Pellets</u>	<u>1/8" Pellets</u>	<u>TRISIV™ Pellets</u>
Bulk density (lbs/ft <sup>3</sup> )	38	38	36
Particle diameter (mm)	1.9	3.7	3.4
Crush strength (lbs)	7	14	14
Pore diameter (Å)	10	10	10
Heat of adsorption (Btu/lb H <sub>2</sub> O)	1800	1800	1800
Equilibrium H <sub>2</sub> O capacity* (wt-%)	26	26	26
Water content, as shipped (wt-%)	<1.5	<1.5	<1.5

\*Measured at 17.5 mm Hg and 25 °C

### CHEMICAL FORMULA



### REGENERATION

13X-PG adsorbent can be regenerated for re-use by purging or evacuating with inert gas at elevated temperatures.

### SAFETY AND HANDLING

See the UOP brochure entitled "Precautions and Safe Practices for Handling Molecular Sieves in Process Units" or contact your UOP representative.

### SHIPPING INFORMATION

13X-PG MOLSIIV adsorbent is shipped in 55-gallon steel drums and quick load bags.

### FOR MORE INFORMATION

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

Telephone: 1-440-734-0086

Fax: 1-440-734-1688

E-mail: Adsorbents@uop.com

