

13X-APG MOLSIV™ ADSORBENT

DESCRIPTION

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

APPLICATIONS

13X-APG adsorbent is specifically developed for air plant feed purification. It has a high capacity for carbon dioxide and water and maintains its capacity well above ambient conditions. It is available in a variety of shapes and sizes to suit your operating needs. In addition, 13X-APG adsorbent can adsorb molecules, such as olefins, aromatics, straight and branch chain hydrocarbons, SO_x, and NO_x compounds.

TYPICAL PHYSICAL PROPERTIES

	1/16" Pellets	1/8" Pellets	TRISIV Pellets	8x12 Beads	6x8 Beads	4x8 Beads
Bulk density (lbs/ft ³)	38	38	36	40	40	40
Particle diameter (in)	0.06	0.12	0.12	0.08	0.12	0.16
Crush strength (lbs)	7	15	15	6	12	15
Equilibrium CO ₂ capacity (1) (wt-%) Measured at 250 mm Hg and 25 °C	>17.5	>17.5	>17.5	>17.5	>17.5	>17.5
Equilibrium H ₂ O capacity (2) (wt-%) Measured at 17.5 mm Hg and 25 °C	24	24	24	24	24	24

CHEMICAL FORMULA

$Nax [(AlO_2)_x(SiO_2)_y] \cdot z H_2O$

REGENERATION

13X-APG adsorbent can be regenerated for re-use by purging at elevated temperatures or at compressor waste heat 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-APG MOLSIV adsorbent is shipped in 55-gallon steel drums or quick load bags.

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