



## 13X-APG MOLSIIV™ 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 8 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<sub>x</sub>, and NO<sub>x</sub> compounds.

### TYPICAL PHYSICAL PROPERTIES

13X-APG sieve is available in sphere or extrudate form. The diameters for the spheres or “beads” are shown below. The diameters for the extrudates or “pellets” are also shown; the length is approximately twice the diameter.

|   | 1/16" Pellets | 1/8" Pellets | TRISIV™<br>Pellets | 8x12 Beads | 6x8 Beads | 4x8 Beads |
|---|---------------|--------------|--------------------|------------|-----------|-----------|
| Bulk density (lbs/ft <sup>3</sup> )                         | 38            | 38           | 36                 | 40         | 40        | 40        |
| Particle diameter (mm)                                      | 1.6           | 3.2          | 3.2                | 2.0        | 3.0       | 4.0       |
| Crush strength (lbs)  | 7             | 15           | 15                 | 8          | 12        | 18        |
| Equilibrium CO <sub>2</sub> capacity <sup>(1)</sup> (wt-%)  | 18.5          | 18.5         | 18.5               | 18.5       | 18.5      | 18.5      |
| Equilibrium H <sub>2</sub> O capacity <sup>(2)</sup> (wt-%) | 27            | 27           | 27                 | 27         | 27        | 27        |
| Water content, as shipped (wt-%)                            | <1            | <1           | <1                 | <1         | <1        | <1        |

<sup>(1)</sup> Measured at 250 mm Hg and 25 °C

<sup>(2)</sup> Measured at 17.5 mm Hg and 25 °C

### FOR MORE INFORMATION

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

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