

# UOP APG™ III ADSORBENT

High-performance adsorbent trace contaminant removal in Air Plant Pre-purification Units (APPUs)



## DESCRIPTION

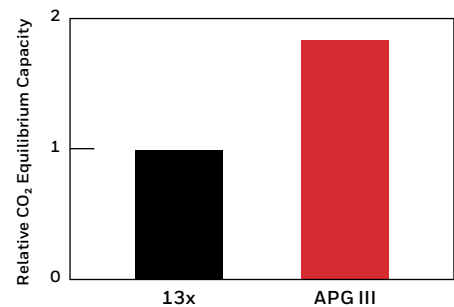
UOP APG III adsorbent is a high performance adsorbent developed for Air Plant Pre-purification Units (APPU) specifically for the removal of trace contaminants such as carbon dioxide, water, and hydrocarbons. Its improved performance provides the opportunity for reduced APPU costs.

## TYPICAL PHYSICAL PROPERTIES

	8X12 BEADS	6X8 BEADS	4X8 BEADS
Nominal pore diameter (Å)	8	8	8
Particle diameter (mm)	2.0	3.0	4.0
Bulk density (lb/ft <sup>3</sup> ) (kg/m <sup>3</sup> )	41 660	41 660	41 660
Crush strength (lb <sub>c</sub> ) (N)	6 26.7	12 53.4	21 93.4
Equilibrium CO <sub>2</sub> capacity* (wt-%)	6.8	6.8	6.8
Equilibrium H <sub>2</sub> O capacity** (wt-%)	27	27	27
Water content, as shipped (wt-%)	<1	<1	<1

\* Measured at 2 mm Hg and 25 °C

\*\* Measured at 17.5 mm Hg and 25 °C



## IMPROVE PERFORMANCE

APG III adsorbent is the latest innovation in UOP's APPU adsorbent portfolio. Its enhanced performance, with approximately 75% greater CO<sub>2</sub> equilibrium capacity than 13X APG adsorbent, has been demonstrated repeatedly in commercial units. APG III adsorbent can be regenerated for reuse by purging at elevated temperatures.

## SHIPPING INFORMATION

UOP APG III adsorbent is shipped in 55-gallon steel drums.

## SAFETY AND HANDLING

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

### For more information

For more information on APG III adsorbent or other UOP adsorbents, please contact your UOP representative or visit us online at <https://uop.honeywell.com>

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