

UOP MOLSIV™ APG III ADSORBENT

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



DESCRIPTION

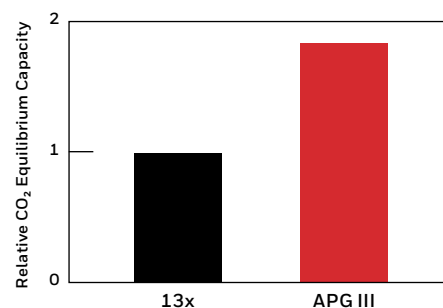
UOP APG III adsorbent is a high performance adsorbent developed for Air Plant Pre-purification Units (APPU) specifically for the removal of trace contaminants such as carbon dioxide, water, and hydrocarbons. Its improved performance provides the opportunity for reduced APPU costs.

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 ³) (kg/m ³)	41 660	41 660	41 660
Crush strength (lb _c) (N)	6 26.7	12 53.4	21 93.4
Equilibrium CO ₂ capacity* (wt-%)	6.8	6.8	6.8
Equilibrium H ₂ 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 CO₂ 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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