

# UOP MOLSIV™ APG X ADSORBENT

Honeywell UOP's high performance adsorbent for APPUs



APG X adsorbent is a high-performance material developed for Air Pre-Purification Units (APPU) specifically for the removal of trace contaminants such as carbon dioxide, water, and hydrocarbons.

## IMPROVED PERFORMANCE

APG X adsorbent is among the highest performers in UOP's APPU portfolio. With 19 % greater CO<sub>2</sub> equilibrium capacity than APG III adsorbent this material is well-suited for high-yield applications.

## REDUCED COSTS OR INCREASED THROUGHPUT

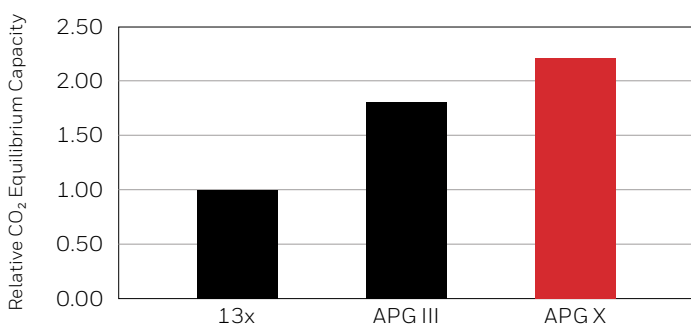
In new designs, APG X adsorbent enables the reduction of vessel sizes, decreases pressure drops, and lowers regeneration costs. For existing or under-designed units, APG X adsorbent facilitates increased throughput while adhering to the pressure drop constraints of the design. By utilizing APG X adsorbent, users can achieve lower operating costs and extend the lifespan of both existing and new units.

## NOMINAL PHYSICAL PROPERTIES

PARAMETER	8X12 BEADS
Nominal pore diameter (Å)	8
Nominal Particle Diameter (mm)	2.0
Bulk density (lb/ft <sup>3</sup> )	41
(kg/m <sup>3</sup> )	653
Crush Strength (lb <sub>p</sub> )	7.2
(N)	32
Equilibrium CO <sub>2</sub> capacity (Wt%) <sup>1</sup>	8.1
Equilibrium H <sub>2</sub> O capacity* (Wt%) <sup>2</sup>	32.5
Water content as shipped (Wt%)	< 1.0

1. Measured at 2 mm Hg, 25 °C

2. Measured at 17.5 mm Hg, 25 °C



1. Measured at 2 mm Hg, 25 °C

## REGENERATION

APG X adsorbent can be regenerated for reuse by purging at elevated temperatures.

## SAFETY AND HANDLING

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

## SHIPPING INFORMATION

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

For more information  
<https://uop.honeywell.com>

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