



## ADSORBENTS

# AW-500 MOLSIV™ ADSORBENT

## DESCRIPTION

AW-500 adsorbent is a clay-bound, acid-resistant molecular sieve product. AW-500 adsorbent will adsorb molecules with critical diameters up to approximately 5 angstroms.

## APPLICATIONS

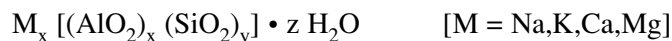
AW-500 adsorbent has been specially formulated for the natural gas processing industry to dry and purify sour natural gas and liquids. It is also used to dry and purify process streams containing strong acid contaminants, such as hydrogen chloride, sulfur dioxide, and the oxides of nitrogen. AW-500 adsorbent has demonstrated the ability to provide long service life and predictable, economical dehydration service.

## TYPICAL PHYSICAL PROPERTIES

	<u>1/16" Pellets</u>	<u>1/8" Pellets</u>
Nominal pore diameter (Å)	5	5
Bulk density (lbs/ft <sup>3</sup> )	44	44
Heat of adsorption (Btu/lb H <sub>2</sub> O)	1450	1450
Moisture content (wt-%)	< 2.5	< 2.5
Equilibrium H <sub>2</sub> O capacity* (wt-%)	20	19.5
Crush strength (lbs)	8	18

\* Measured at 17.5 mm Hg and 25 °C

## CHEMICAL FORMULA



## REGENERATION

AW-500 adsorbent can be regenerated for re-use by purging or evacuating at temperatures of 300 °F to 600 °F.

## 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

AW-500 MOLSIV adsorbent is shipped in 55-gallon steel drums and quick load bags.

## FOR MORE INFORMATION

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

Telephone: 1-440-734-0086  
Fax: 1-440-734-1688  
E-mail: [Adsorbents@uop.com](mailto:Adsorbents@uop.com)

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UOP 3102-17 0401A1Bg



UOP LLC  
25 East Algonquin Road  
Des Plaines, IL 60017-5017  
[www.uop.com](http://www.uop.com)