



# PRODUCT SPECIFICATIONS

## AGM PN: 920513

MOLECULAR SIEVE, TYPE 4A, 4 x 8 MESH BEADED

**Chemical Formula:**  $\text{Na}_{12}[(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot n\text{H}_2\text{O}$

### Product Description:

Molecular sieve is an alkali aluminosilicate in the spherical form. It is the sodium form of the Type A crystal structure with an effective pore opening of approximately 4Å. It will adsorb molecules, such as oxygen, nitrogen, carbon dioxide, and straight chain hydrocarbons. Aromatics and branched chain hydrocarbons will not be adsorbed.

Property	Value	Unit
Bead Size	4-8	Mesh
Nominal Pore Opening	4	Angstroms
Equilibrium Water Capacity @ 25°C	≥ 22	
Heat of Adsorption	1800	BTU/lb of H <sub>2</sub> O
Bulk Density	≥ .70	g/ml
	≥ 44	lbs/ft <sup>3</sup>
Crush Strength	≥ 18	lbs
	≥ 80	N
Size Qualification	≥ 97	%
Package Moisture	≤ 1.5	% Weight

### Typical Applications

As a desiccant in air dryers, packaging of pharmaceuticals, perishable chemicals and electronics, removing CO<sub>2</sub> from gas and air streams; purification of various gas streams and liquids; water scavenger in paint and plastic systems; commercial drying of saturated hydrocarbons.

### Handling and Storage Recommendations

Store molecular sieve in a dry location to prevent premature water adsorption. Reseal packages after opening to prevent contamination and unintended water adsorption. We recommend that you rotate stock so oldest material is used first.

### Packaging Information

Bags 150 kg  
Super Sacks Fill weights to order specification