



PRODUCT SPECIFICATIONS

AGM PN: 920542

MOLECULAR SIEVE, TYPE 13, 4 x 8 MESH BEADED

Chemical Formula: $\text{Na}_{86}[(\text{AlO}_2)_{86}(\text{SiO}_2)_{106}] \cdot n\text{H}_2\text{O}$

Product Description:

Molecular sieve is a multiple purpose, highly porous, high capacity alkali metal aluminosilicate in the spherical form. It is the sodium form of the Type X crystal structure with pore diameters of approximately 10Å. It can adsorb all molecules that can be adsorbed by 3A, 4A, and 5A molecular sieve. Type 13X can also adsorb molecules, such as aromatics and branched-chain hydrocarbons, which have large critical diameters.

Property	Value	Unit
Bead Size	4 x 8	Mesh
Nominal Pore Opening	10	Angstroms
Equilibrium Water Capacity @ 25°C	≥ 26	
Heat of Adsorption	1800	BTU/lb of H ₂ O
Bulk Density	≥ .64	g/ml
	≥ 40	lbs/ft ³
Crush Strength	≥ 18	lbs
	≥ 80	N
Size Qualification	≥ 97	%
Package Moisture	≤ 1.5	% Weight

Typical Applications

Removal of H₂O and CO₂ in air plant purification systems for air separation processes, as a desiccant in air dryers and PSA oxygen systems.

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 140 kg
Super Sacks Fill weights to order specification