

mSORB® 4A Molecular Sieve Beads, Type A

CHEMICAL FORMULA

$\text{Na}_{12}[(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot \text{NH}_2\text{O}$

PRODUCT DESCRIPTION

mSORB® 4A 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.

TYPICAL PROPERTIES		
PRODUCT CODE	4A812B	4A48B
Nominal Pore Opening(Å)	4	4
Shape	Bead	Bead
Particle Size (Mesh)	8 x 12	4 x 8
Equilibrium Water Capacity (wt%) 25 °C	≥ 22	≥ 22
Heat of Adsorption (BTU/lb of H ₂ O)	1800	1800
Bulk Density (g/ml) [lb/ft ³]	≥ .7 [≥ 44]	≥ .7 [≥ 44]
Crush Strength (N) (lb)	≥ 30 (≥ 7)	≥ 30 (≥ 18)
Size Qualification (%)	≥ 97	≥ 97
Package Moisture (wt%)	≤ 1.5	≤ 1.5

TYPICAL APPLICATIONS

As a desiccant in air dryers, packaging of pharmaceuticals, perishable chemicals, and electronics; removing CO₂ from gas and air streams; purification of various gas streams and liquids; water scavenger in paint and plastic systems; commercial drying of saturated hydrocarbons.

PACKAGING

Available in 55 lb (25 kg) drums, 330 lb (150kg) drums, and super-sacks filled to order specification.

HANDLING & STORAGE RECOMMENDATIONS

Store in a dry location to prevent unintentional 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.

HEALTH & SAFETY INFORMATION

Health and safety information is available on our product SDS, which can be downloaded from our website interraglobal.com or by contacting Interra Global at 847.292.8600.