



## PRODUCT DATA

**mSORB<sup>®</sup> 4A**  
MOLECULAR SIEVE BEADS, TYPE 4A

CHEMICAL FORMULA  
 $\text{Na}_{12}[(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot n\text{H}_2\text{O}$

### PRODUCT DESCRIPTION

mSORB 4A molecular sieve is an alkali alumino-silicate in the spherical form. It is the sodium form of the Type A crystal structure with pore diameters of approximately 4 angstroms. The 4Å molecular sieve will adsorb molecules such as oxygen, nitrogen, carbon dioxide and straight chain hydrocarbons. Aromatics and branched chain hydrocarbons will not be adsorbed.

TYPICAL PROPERTIES		
PRODCUCT CODE	4A812B	4A48B
Nominal Pore Opening (Å)	4	4
Shape	Bead	Bead
Particle Size (Mesh)	8 X 12	4 X 8
Equilibrium Water Capacity @ 25°C (wt%)	≥ 22	≥ 22
Heat of Adsorption (BTU/lb of H <sub>2</sub> O)	1800	1800
Bulk Density (g/ml)	≥ .7	≥ .7
Bulk Density (lb/ft <sup>3</sup> )	≥ 44	≥ 44
Crush Strength (lb)	≥ 7	≥ 18
Crush Strength (N)	≥ 30	≥ 80
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 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.

### PACKAGING INFORMATION

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 web site [interraglobal.com](http://interraglobal.com) or by contacting Interra Global at 847.292.8600.

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