

## mSORB<sup>®</sup> 5A Molecular Sieve Beads, Type A

### CHEMICAL FORMULA

CA<sub>4,5</sub> [(AlO<sub>2</sub>)<sub>12</sub>(SiO<sub>2</sub>)<sub>12</sub>] · nH<sub>2</sub>O

### PRODUCT DESCRIPTION

mSORB<sup>®</sup> 5A molecular sieve is an alkali metal aluminosilicate in the spherical form. It is the calcium form of the type A crystal structure with an effective pore opening of 5Å. Molecules with effective diameters greater than 5Å, such as iso-compounds and all 4-carbon rings will not be adsorbed. Adsorbed molecules include NC<sub>4</sub>H<sub>10</sub>, nC<sub>4</sub>H<sub>10</sub>, C<sub>3</sub>H<sub>8</sub> to C<sub>22</sub>H<sub>46</sub>, and Freon 12 (dichlorodifluoro-methane).

TYPICAL PROPERTIES		
PRODUCT CODE	5A812B	5A48B
Nominal Pore Opening(Å)	5	5
Shape	Bead	Bead
Particle Size (Mesh)	8 x 12	4 x 8
Equilibrium Water Capacity (wt%) 25 °C @ 50% RH	≥ 21	≥ 21
Heat of Adsorption (BTU/lb of H <sub>2</sub> O)	1800	1800
Bulk Density (g/ml) [lb/ft <sup>3</sup> ]	≥ .7 [42]	≥ .6 [41]
Crush Strength (N) (lb)	≥ 30 (7)	≥ 110 (24)
Size Qualification (%)	≥ 96	≥ 96
Package Moisture (wt%)	≤ 1.5	≤ 1.5

### TYPICAL APPLICATIONS

Using selective adsorption to remove normal and iso-paraffins from branched chain and cyclic hydrocarbons, natural gas drying, removal of H<sub>2</sub>S, CO<sub>2</sub> and mercaptans from natural gas, inert gas purification, H<sub>2</sub> purification, PSA oxygen purification, solvent drying, and separation of aromatics.

### PACKAGING

Available in 330 lb (150 kg) drums.

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