



## PRODUCT SPECIFICATIONS

### mSORB® 5A812B

Molecular Sieve, Type 5A, 8 x 12 Mesh, Beaded

**CHEMICAL FORMULA**  $\text{Ca}_{4.5} [(\text{AlO}_2)_{12}(\text{SiO}_2)_{12}] \cdot n\text{H}_2\text{O}$

#### PRODUCT DESCRIPTION

mSORB® 5A812B 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  $\text{NC}_4\text{H}_{10}$ ,  $n\text{C}_4\text{H}_{10}$ ,  $\text{C}_3\text{H}_8$  to  $\text{C}_{22}\text{H}_{46}$ , and Freon 12 (dichlorodifluoro-methane).

SPECIFICATIONS		
Property	Value	Unit
Bead Size	8 x 12	Mesh
Nominal Pore Opening	5	Angstroms
Equilibrium Water Capacity @ 25°C	≥ 21	% Weight
Heat of Adsorption	1800	BTU/lb of H <sub>2</sub> O
Bulk Density	≥ .70	g/ml
	≥ 42	lbs/ft <sup>3</sup>
Crush Strength	≥ 7	lbs
	≥ 30	N
Size Qualification	≥ 96	%
Package Moisture	≤ 1.5	% Weight

#### TYPICAL APPLICATIONS

Using selective adsorption to remove normal 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 INFORMATION

Drums 150 kgs / 330lbs  
Super Sacks Fill weights to order specification

#### HANDLING & STORAGE RECOMMENDATIONS

Store mSORB® 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.

#### HEALTH & SAFETY INFORMATION

Health and Safety Information is available on product MSDS, which can be downloaded from our web site [www.deltaadsorbents.com](http://www.deltaadsorbents.com) or by contacting Delta Adsorbents at 800.274.3205.

#### DISTRIBUTED BY:

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