



## PRODUCT SPECIFICATIONS

### **mSORB<sup>®</sup> 4A812B**

Molecular Sieve, Type 4a, 8 x 12 Mesh, Beaded

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

#### **PRODUCT DESCRIPTION**

**mSORB<sup>®</sup> 4A812B** molecular sieve is an alkali metal aluminosilicate in the spherical form. It is the sodium form of the Type A crystal structure with an effective pore opening of 4Å. It will adsorb molecules such as oxygen, nitrogen, carbon dioxide and straight chain hydrocarbons. Aromatics and branched chain hydrocarbons will not be adsorbed.

SPECIFICATIONS		
Property	Value	Unit
Bead Size	8 x 12	mesh
Nominal Pore Opening	4	Angstroms
Equilibrium Water Capacity @ 25°C	≥ 22	% Weight
Heat of Adsorption	1800	BTU/lb of H <sub>2</sub> O
Bulk Density	≥ .70	g/ml
	≥ 44	lbs/ft <sup>3</sup>
Crush Strength	≥ 7	lbs
	≥ 30	N
Size Qualification	≥ 97	%
Package Moisture	≤ 1.5	% Weight

#### **TYPICAL APPLICATIONS**

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**

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

#### **HANDLING & STORAGE RECOMMENDATIONS**

Store **mSORB<sup>®</sup>** 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.interraglobal.com](http://www.interraglobal.com) or by contacting Interra Global Corporation at 847.292.8600.