



## PRODUCT SPECIFICATIONS

### **mSORB® EDG**

Ethanol Drying Grade Molecular Sieve

Type 3A, 4 x 8 Mesh, Beaded

**CHEMICAL FORMULA**  $K_{12} [(AlO_2)_2(SiO_2)_2] \cdot nH_2O$

### **PRODUCT DESCRIPTION**

**mSORB® EDG** molecular sieve is specifically designed for drying fuel grade ethanol. Ethanol can only be dried to the azeotropic point of 95.6% purity by traditional distillation. **mSORB® EDG** selectively adsorbs the water from the solution to produce anhydrous ethanol with less than 1% water. This is the drying method of choice for fuel ethanol producers.

SPECIFICATIONS		
Property	Value	Unit
Bead Size	4 x 8	Mesh
Nominal Pore Opening	3	Angstroms
Equilibrium Water Capacity @ 23 ± 2°C 50% RH	≥ 21	% Weight
Equilibrium Water Capacity @ 23 ± 2°C 10% RH	≥ 18	% Weight
Packed Bulk Density ENISO 787-11	0.75 - 0.80	g/ml
Crush Strength	≥ 90	N
Size Qualification	≥ 97	%
Alcohol Δ T (20cc/20cc)	≤ 8 ° C	° C
Methanol Δ T (20cc/20cc)	≤ 16° C	° C
K <sup>+</sup> Exchange Rate	45-55	% Weight
Desorption of N <sub>2</sub> (cm <sup>3</sup> /100g)	None	
Heat of Adsorption	1800	BTU/lb of H <sub>2</sub> O
Attrition MIL-D-3716B	≤ 0.2	% Weight
LOI (1 Hour @ 950°C)	≤ 1.0	% Weight

### **TYPICAL APPLICATIONS**

Drying of fuel grade ethanol.

### **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.interraglobal.com](http://www.interraglobal.com) or by contacting Interra Global Corporation. At 847.292.8600.