

mSORB® EDG
Ethanol Drying Grade Molecular Sieve

PRODUCT DESCRIPTION

mSORB® EDG molecular sieve is specifically designed for the dehydration of fuel grade ethanol. Ethanol can only be dried to an azeotropic point of 95.6% purity by traditional distillation. After that point, mSORB® EDG selectively adsorbs the water from the solution to produce anhydrous ethanol with less than 0.5% water. This is the drying method of choice for fuel ethanol producers.

CHEMICAL FORMULA

$K_{12} [(AlO_2)_{12}(SiO_2)_{12}] \cdot nH_2O$

TYPICAL APPLICATIONS

Dehydration of fuel grade ethanol in PSA and VSA systems.

PACKAGING INFORMATION

2100 lb super sacks
 330 lb steel drums

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.

TYPICAL PROPERTIES

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Product Code	3A48EDG
Particle Size (Mesh)	4 x 8
Particle Type	Bead
Type	3A
Nominal Pore Opening (Å)	3
Water Adsorption Capacity (wt%)	≥ 21
Heat of Adsorption (BTU/lb of H ₂ O)	1800
Bulk Density (g/ml)	≥ 0.75
Bulk Density (lb/ft ³)	≥ 46.8
Attrition (wt%)	≤ 0.2
Crush Strength (N)	≥ 100
Crush Strength (lb)	≥ 22.4
Size Qualification (%)	≥ 99
Package Moisture (wt%)	≤ 1.5

HEALTH & SAFETY INFORMATION

Health and safety information is available on our product SDS, which can be downloaded from our website interraglobal.com or by contacting Interra Global at 847.292.8600.