



## Ethanol Dehydration Specialized Molecular Sieve

### Introduction

When manufacturing ethanol, specifications require very low amounts of water in the ethanol to avoid the potential for the formation of unwanted products in automotive combustion engines. Thorough separation of ethanol and water is achieved with the use of extremely porous composite materials consisting of zeolite and binder. These composite materials, known as molecular sieves, are the most economical means of drying ethanol.

SNOWPEAK produced sieves specifically for ethanol dehydration in the 1990s, Today SNOWPEAK's customers depend on SNOWPEAK molecular sieves to dry ethanol that is produced from edible feedstock, cellulosic feedstocks, and synthetically produced ethanol.

### Parameter

Type	3A-E
Nominal Pore Diameter	3 angstroms
Shape	Beads
Diameter	4*8mesh or 3.6mm-4.8mm
Bulk Density(g/ml)	≥0.68
Crush Strength(N)	≥80
Wear Ratio(%)	≤0.1
Water Content(%)	≤1.0
Static H <sub>2</sub> O Adsorption(%)	≥21

### Application:

Molecular sieves real SNOWPEAK 3A-E , designed to dry ethanol down to the ppm level for years in high purity applications in food, beverage and pharmaceuticals.

Gaseous Ethanol Molecular sieve desiccants

Liquid Ethanol Molecular sieve desiccants

Biomass fuel Molecular sieve desiccants



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## Superior physical properties

- Very good adsorption kinetics
- Low co-adsorption of ethanol
- High attrition resistance of the beads
- Lowest level of by-products formation
- Design to dry high volumes of Ethanol
- Down to PPM level

## Strong Technical Service and Support

- Perfect technical service team.
- Customized design Technical proposal.
- More than 20 years ethanol dehydration application experience.
- Analytical support.
- Performance evaluation and reporting.
- Customer seminars.

## Storage

Room temperature; indoor humidity no more than 90%; avoid water, acid, alkali; isolate air; sealed preservation.

## Package

Iron drum, net weight 135kg; or according to customer requirements.

