



# Zhengzhou SnowMountain Industrial Co., Ltd

## 郑州雪山实业股份有限公司

### Molecular Sieve Raw Powder

#### Introduction

3A molecular sieve powder or 3A zeolite powder, is of good shape-selective adsorption, catalysis and ion exchange properties. It can be processed into balls, strips or irregular shapes by mixing with binder and other additives, to form molecular sieves or directly to make activated powders after high temperature calcination.

4A molecular sieve powder or 4A zeolite powder, is mostly used in the production of polymers such as polyurethane, to absorb moisture and other impurities that affect product quality, without changing its own physical and chemical properties. Also used as a selective adsorbent, added in the production process of specific polymers or coatings, to adsorb carbon dioxide, hydrogen sulfide and other gases. Or used as insulating glass desiccant and catalyst carrier.

5A molecular sieve powder or 5A zeolite powder, is a sodium aluminosilicate crystal containing structural water, belonging to the silicate class, with large specific surface area, strong calcium exchange ability and good fluidity. It is one of the main raw materials of washing powders and soaps.

13X molecular sieve powder or 13X zeolite powder, is a fine white powder with no visible contamination form; used in air purification, air separation equipment, and gas-liquid separation.

#### Technical Specification

Type	3A	4A	5A	13X
Appearance	white powder	white powder	white powder	white powder
Crystallinity(%)	~100	~100	~100	~100
Static H <sub>2</sub> O Adsorption(%)	≥25	≥27	≥28	≥32



# Zhengzhou SnowMountain Industrial Co., Ltd

## 郑州雪山实业股份有限公司

Static CO <sub>2</sub> Adsorption(%)			≥22.5	≥22.5
Loss on Ignition	≤22	≤22	≤23	≤24
PH Value	≤11	≤11.5	≤10.5	≤11.5
Cl-(%)	≤0.2		≤0.2	
K <sub>2</sub> O (%)	≥13			
K <sub>2</sub> O/Al <sub>2</sub> O <sub>3</sub> (%)	≥40			
CaO(%)			≥13.5	
CaO/Al <sub>2</sub> O <sub>3</sub> (%)			≥70	
Bulk Density(g/ml)	0.5	0.4	0.6	0.4

### Application

3A: Drying of ethylene and propylene ethanol  
4A: Dehumidification of oil and gas fields  
5A: Air purification and oxygen enrichment  
13X: Air purification and gas-liquid separation

### Packing

Drum, sack, or according to customer requirements

### Storage

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