



ACTIVATED ALUMINA

Activated alumina desiccant, composed of aluminum oxide, is a porous substance created through heating aluminum hydroxide, generating a network of interconnected pores. With a large surface area and strong adsorption capacity, it finds extensive application in industries like gas drying, natural gas dehydration, and liquid drying. Additionally, it is chemically stable, non-toxic, and safe for use in food and pharmaceutical sectors.



WHAT ARE THE CHARACTERISTICS OF ACTIVATED ALUMINA?



HIGH ADSORPTION CAPACITY

High adsorption capacity for moisture, gases, and various impurities.



SELECTIVE ADSORPTION

Able to target specific impurities or components in a mixture.



REGENERABILITY

Can be regenerated by heating.



CHEMICAL COMPATIBILITY

Able to withstand exposure to a wide range of chemicals and gases without significant degradation.



TEMPERATURE RESISTANCE

Suitable for applications involving heat or elevated temperatures.



LOW DUST GENERATION

Beneficial for applications where dust contamination needs to be minimized.



CUSTOMIZABLE PROPERTIES

Can be tailored through manufacturing processes to suit specific applications.



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WHAT IS THE METHOD FOR PRODUCING RAW MATERIALS FOR ACTIVATED ALUMINA?

Activated alumina desiccant production begins with the extraction of aluminum hydroxide from sources like bauxite ore. Through a calcination process, water is removed, transforming it into aluminum oxide. The subsequent controlled activation, often involving high temperatures and steam, creates a porous structure, boosting its moisture adsorption capabilities. After cooling, crushing, and sieving, the activated alumina is tailored for specific applications, with the process parameters crucial for optimizing its efficiency in moisture adsorption and other applications.



WHAT CAN ACTIVATED ALUMINA DESICCANT BE USED FOR?



- GAS DRYING

Activated alumina desiccant can effectively dry over twenty types of gases, including acetylene, hydrogen, oxygen, air, nitrogen, and others.



- LIQUID DRYING

Activated alumina is effective at removing moisture and impurities from liquids like solvents, oils, and gases. Its chemical stability and non-toxicity make it a versatile choice for various industries.



- WATER PURIFICATION

In the field of water purification, activated alumina mainly focusing on fluoride removal, color and odor elimination, and phosphate removal from water.



• For additional desiccant solutions visit wisesorbent.com •

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to place an order
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