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Activated Alumina Ball Adsorbent



Introduction: activated alumina ball adsorbent has porous structure, high specific surface area and unstable filtration state, and has high activity. It can be used as desiccant for gas and liquid, adsorbent for gas purification, deoxidizer for drinking water, deodorizer for industrial sewage, etc.

1. Product description of activated alumina ball adsorbent

The product has high strength, good physical properties, non-toxic and tasteless. When immersed in water, it will not soften, expand or crack. It has long service life and is easy to regenerate. The product is mainly used as air compressor adsorption desiccant, drinking water or defluorination agent of industrial equipment. It has strong deaeration capacity. It is widely used as catalyst and catalyst carrier in petrochemical and chemical fertilizer industry. It is a porous white sphere with high dispersion. The main crystal forms are γ - Al_2O_3 and ρ - There are two kinds of Al_2O_3 . γ - Al_2O_3 has a large specific surface area, about 200-600m² / g, and has strong adsorption capacity and catalytic activity. Its pore structure has the characteristics required by catalysis, such as adsorption performance, surface activity and stability. It is not powdered when soaked in water in the medium.

2, Technical index

ITEM	UNIT	VALUE
Al ₂ O ₃	%	>93
Bulk density	g/ml	≥0.7
Compressive strength	N/grain	170-220
Specific surface area	m ² /g	300-350
Hole area	ml/g	≥0.38
Static water adsorption 25 °C, 60% humidity		≥18

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Wear rate	%	≤0.1
Fluoride absorption	ml/g	≥2.1
Specification	mm	1-3,3-5,4-6,5-8

3. Main purpose

1) The activated alumina ball used in the air separation equipment and oxygen production industry and the molecular sieve purification system of the air separation equipment can ensure the normal operation of the air separation equipment, meet the adsorption and regeneration cycle, the water content of the gas at the outlet of the purifier meets the requirements, and the service life is more than 3 years.

2) It is a good fluoride remover, hydrogen fluoride gas remover, petrochemical, industrial desiccant, and also a common adsorbent for adsorption desiccant

3) The product is often used to remove water from various gases and liquids, such as alcohol dehydration. It is also a good adsorbent for oxides of ammonia, hydrogen fluoride and arsenic. It is often used for deep drying of petroleum cracking gas, ethylene gas, natural gas purification, etc.

4. Characteristics of activated alumina ball

1) High specific surface area, 300-350m² / g

2) Very low wear rate, ≤ 0.1%

3) Soaking in water will not soften, expand or pulverize

4) High strength, compressive strength 170-220n

5) Strong adsorption capacity and drying capacity

6) Recycled and reused, with a service life of more than 3 years

5, Good feedback of product use effect, the products have been exported to South Korea, Japan, Pakistan

6, We are a professional supplier, who can provide customers with free product technology, use and other issues

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