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Molecular Sieve



Molecular sieve is a kind of silicoaluminate compound with cubic lattice, with uniform microporous structure. Its hole diameter is uniform, which can adsorb molecules with small diameter into the pore cavity, and separate molecules with different polarity, saturation, molecular size and boiling point, that is, it has the function of screening molecules, so it is called molecular sieve

1, Technical index

Brand	Molecular formula	Shape	Diameter mm	Bulk density g/ml	Wear rate %	Compressive strength N/P	Static water adsorption %	Main purpose
3A molecular sieve	$0.4K_2O \cdot 0.6Na_2O \cdot Al_2O_3 \cdot 2SiO_2 \cdot 4.5H_2O$	Strip	1.5-1.7	≥ 0.68	≤ 0.20	$\geq 45/cm$	≥ 20	used for drying various liquids such as ethanol, air, natural gas, methane, etc
		spherical	2.0-3.0	≥ 0.75	≤ 0.15	$\geq 55/p$	≥ 20.5	
4A molecular sieve	$Na_2O \cdot Al_2O_3 \cdot 2SiO_2 \cdot 4.5H_2O$	Strip	3.0-3.3	≥ 0.60	≤ 0.25	$\geq 45/cm$	≥ 20.5	Drying of air, natural gas, gas and liquid, preparation and purification of argon, drying of drug packaging
		spherical	4.0-6.0	≥ 0.75	≤ 0.15	$\geq 80/p$	≥ 21.5	
5A molecular sieve	$0.7CaO \cdot 0.3Na_2O \cdot Al_2O_3 \cdot 2SiO_2 \cdot 4.5H_2O$	Strip	1.5-1.7	≥ 0.60	≤ 0.20	$\geq 30/cm$	≥ 21.5	PSA, air purification, dehydration and carbon dioxide adsorption
		spherical	2.0-4.0	≥ 0.72	≤ 0.15	$\geq 60/p$	≥ 21.5	
Special molecular sieve for natural gas drying		spherical	2-3	≥ 0.78	≤ 0.15	≥ 80	≥ 22	All kinds of liquefied natural gas and liquefied petroleum gas devices have a service life of more than three years
			3-5	≥ 0.75	≤ 0.15	≥ 140	≥ 22	
13 X	$Na_2O \cdot Al_2O_3 \cdot 2.45SiO_2$	Strip	1.5-1.7	≥ 0.54	≤ 0.20	$\geq 30/cm$	≥ 24	Gas purification, dehydration and drying

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molecular sieve	O2·6H2O	spherical	2.0-3.0	≥0.68	≤0.15	≥40/p	≥24	and desulfurization of CO2, natural gas, petroleum gas and liquid hydrocarbon
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2 , Description of molecular sieve: it has strip shape and spherical shape, small diameter and small pore diameter. It is divided into 3A, 4A and 5A, and has uniform size. It has strong adsorption capacity, drying capacity, separation capacity and strong thermal shock stability. It has the advantages that other adsorbents do not have. It can be used as desiccant, selective adsorbent, catalyst, ion exchanger, etc. Molecular sieves can be recycled. They are usually regenerated and reused by reheating and purging or evacuation. Molecular sieves are aluminum silicate compounds, not chemicals, non-toxic and environmental friendly.

3, Characteristics of molecular sieve:

- 1) High adsorption capacity
- 2) High strength
- 3) High wear resistance and never pulverization
- 4) High separation capacity
- 5) The service life is more than 3 years

4, Purpose

- 1) Drying of various liquids
- 2) Adsorption and separation of various gases
- 3) Desiccant, catalyst and adsorbent of various drying devices, separation devices and purification devices

5, Application picture



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

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

Do you want to find a professional supplier of Molecular Sieve Product?

Do you want to find a stable and credible supplier?

Then please contact with us

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