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Product：Molecular Sieve 3A

The pore size of 3A molecular sieve is 3 Å . It does not adsorb any molecular larger than 3 Å. It is an alkali metal alumina-silicate, the potassium form of the typ A crystal structure. 3 Angstrom, is obtained when part of the sodium ions of the 4 Angstrom sieve are replaced by potassium ions. Will adsorb, in sequence of adsorption rate, helium, neon, nitrogen and water .

According to the industrial application specialties, we endue our products with the characters of higher adsorption speed, stronger crushing and anti-contaminative resistance, more cyclic times and longer work-span. All these advantage have made it come to be the most essential and necessary desiccant in the fields of the deep drying, refinery, polymerization for cracked gases, ethylene, propylene and any other non-acidic gases or liquids in petroleum and chemical industries

Most of the industries require 100% water-free Ethanol. The finally manufactured alcohol is a rectified spirit with almost 94.6% alcohol and the remaining percentage is water. It is very difficult to remove the amount of water in alcohol using any straightforward and simple distillation process. Therefore, a special dehydration process needs to be carried out using latest technology to manufacture the absolute alcohol. In the case of ethanol, water is extracted by making it dehydrated with the help of adsorbent structure of molecular sieve 3A.

Technical Specification

Item		Pellet (mm)		Sphere (mm)	
		Ø1.6mm	Ø3.2mm	Ø1.7-2.5mm	Ø3-5mm
Wear ratio	%	≤0.2	≤0.2	≤0.15	≤0.15
Bulk density	g/ml	≥0.70	≥0.72	≥0.66	≥0.66
Ratio	%	≥ 98	≥ 98	≥98	≥98

Static water adsorption %		≥22	≥22	≥22	≥22
Ethylene adsorb %		≤3	≤3	≤3	≤3
Crushing strength	Unit area resistant to compression garrulous strength N/mm2	≥30	≥40	≥55	≥85
	Coefficient of variation	0.5	0.5	0.3	0.3
Packing water %		≤1.0	≤1.0	≤1.0	≤1.0

Special molecular sieve 3A for insulating glass

Item		Insulating glass (mm)	
		Ø1.0-1.6mm	Ø1.6-2.0mm
Wear ratio %		≤0.15	≤0.15
Bulk density g/ml		≥0.75	≥0.75
Ratio %		≥98	≥98
Static water adsorption %		≥22	≥22
Ethylene adsorb %		≤2.5	≤2.5
Crushing strength	Unit area resistant to compression garrulous strength N/mm2	≥25	≥26
	Coefficient of variation	≥0.3	≥0.3
Packing water %		≤1.5	≤1.5