PingXiang Mi'Ao Packing Co.,ltd

Mobile:+86 18870997055 web:www.pxmiaopacking.com Email:info@pxmiaopacking.com

Product：Molecular Sieve 4A

Molecular Sieve type 4A (Angstrom) is an alkali alumina silicate, obtained through synthesis of type A zeolite in sodic form. It is the sodium form of the Type A crystal structure. 4A molecular sieve has an effective pore opening of about 4 angstroms (0.4nm). Galaxychem type 4A molecular sieve will absorb most molecules with a kinetic diameter of less than 4 angstroms and exclude those larger

Application

Will absorb in sequence of absorption rate, argon, krypton, xenon, ammonia, carbon monoxide, C2H4, C2H2, CH3OH, C2H5OH, CH3en2, CS2, CH3CL, CH3Br, and carbon dioxide.

1. Deep drying of air, natural gas, alkane and refrigerant.
2. Generation and purification of argon.
3. Static dehydration of electronic element, pharmaceutical and unstable materials.
4. Desiccant of paint, PU Plastic, dope and fuel etc.
5. Drying and removing of CO_2 from natural gas, LPG, air, inert and atmospheric gases, etc.
6. Removal of hydrocarbons, ammonia and methanol from gas streams (ammonia syn gas treating)
7. Special types are used in the air break units of buses, trucks and locomotives.
8. Packed in small bags, it may be used simply as a packaging desiccant

Technical Specification

Item	Unit	Target			
Shape		Pellet		Sphere	
Diameter	mm	1.6	3.2	1.7-2.5	3.0-5.0
Size ratio up to grade	% min	98	98	96	96
Bulk density	g/ml min	0.67~0.75			
Wear ratio	% max	0.2	0.2	0.2	0.2
Crushing strength	N min	35	70	35	85
Static water absorption	% min	22	22	22	22

ADD:No.11,WuGongShan Road,Economic Development Zone, PingXiang City,JiangXi Province,China

Mobile:+86 18870997055 web:www.pxmiaopacking.com Email:info@pxmiaopacking.com

Item	Unit	Target			
Shape		Pellet		Sphere	
strength	compression garrulous strength N/mm2	25	25	40	80
	Coefficient of variation	0.3	0.3	0.3	0.3
Static Methane absorption	% min	16	16	16	16
Packing water	% max	1.0	1.0	1.0	1.0

Regeneration

1. Removing the moisture:

You May use the dry gas like nitrogen, the air, the hydrogen, the saturated hydrocarbon and heat the gas up to 150-320 ℃.Firstly you need let the hot gas purge through the molecular sieve bed with the pressure of 0.3-05kg/m2 for 3 to 4 hours. Then change to dry cold gas for 2-3 hour, at last you need isolate the molecular sieve from air and cool it to room temperature.

2. Removing the organics:

You can use the water vapor to take the place of organics, then use the method 1.

You can also use the hot water vapor or inner gas pass through the molecular sieve under the temperature of 200-350℃ (couldn't use the gas which will explore when to mix with the adsorbed organics).

3. Removing the gas

You can reduce the pressure to regenerate the molecular sieve.