

Activated alumina impregnated with potassium permanganate

Products Introduction:

XR2006®M **Activated alumina impregnated with potassium permanganate**(KMNO₄) media(also called potassium permanganate activated alumina) is a chemisorbent, filtering by adsorption and then oxidation, and has a low pressure drop due to its uniform size and spherical shape.XR2006®M**Activated alumina impregnated with potassium permanganate**(KMNO₄) is a high surface area activated alumina pellet, impregnated with potassium permanganate during its manufacturing. Xiangrun filtration media adopts mixing material technology, not immersion.The result is a chemical filter with enhanced performance in removing Hydrogen Sulfide (H₂S), Sulfur Dioxide (SO₂), Nitrogen Dioxide (NO₂), Mercaptans, as well as light organics from airstreams. It highly adsorb ethylene, so it is as ethylene filter or ethylene adsorber. XR2006®M KMNO₄ impregnated activated alumina media is a chemisorbent, filtering by adsorption and then oxidation, and has a low pressure drop due to its uniform size and spherical shape.

Characteristics of Activated alumina impregnated with potassium permanganate:

- IHigh bulk density
- IUniform size and even color
- IHigh mechanical strength and wear resistance
- IHigh pore volume and high adsorption
- I6%-12% KMNO₄ content
- IMixed material technology

Condition of Activated alumina impregnated with potassium permanganate:

- Temperature: -20°C to 51°C (-4°F to 125°F)
- Humidity: 10% to 95% RH
- Airflow: Ranging from less than 25 cfm (42.5 m³ /hr.) to over 100,000 cfm (169,920 m³ /hr.), with velocities from 50 fpm (0.254 m/s) to 500 fpm (2.54 m/s)

Item	Unit	Technical requirement		
Particle size	mm	2-4	3-5	4-6

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AL ₂ O ₃	%	≥80	≥80	≥80
KMnO ₄	%	6-10	6-10	6-12
Bulk density	g/ml	0.85-0.9	0.85-0.9	0.85-0.9
Surface area	m ² /g	≥250	≥250	≥250
Pore Volume	ml/g	≥0.42	≥0.42	≥0.42
Crushing Strength (N/Particle)	N/particle	≥50	≥80	≥100
Pressure Drop @ 50 fpm (0.25 m/s):		1.0 in. of water/ft. of bed	1.0 in. of water/ft. of bed	1.0 in. of water/ft. of bed
H ₂ S Capacity	g/ml	0.85-1.2	0.85-1.2	0.85-1.2

Application:

XR2006®M impregnated activated alumina with potassium permanganate(KMNO₄) media is used for chemical filtration.

Storage:

Avoid moisture, avoid scrolling, throw and sharp shocking during transportation, rainproof facilities should be readied..

It should be stored in dry and ventilated warehouse to prevent contamination or moisture.

Package:

Type	Paper bag	Paper Drum	Steel Drum
Beads	25kg/55lb	25 kg/ 55 lb	150 kg/ 330 lb

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