Activated alumina, Pseudoboehmite & Molecular sieve

Quality and advanced Technology

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Catalyst & Adsorbent

Why Choose Xiangrun?

Zibo XiangRun Environment Engineering Co., Ltd is a leading adsorbent ,desiccant and catalyst manufacturer in China and world. Our company was established in 2010, located in Zibo, Shandong. We manufacture activated alumina, Potassium permanganate alumina, pseudoboehmite alumina and alumina balls products. And we invest in the biggest molecular sieve factory In China.

Our group offers exceptional expertise in the development of technology. XiangRun can blend the perfect bulk mixture to solve your oxygen and moisture control issues. Our products pass ISO9001:2008 and SGS certificate.

Over the past years, we have established business relationships with many famous companies worldwide, including the China National Petroleum Cooperation, Sinopec, and the Petrochemical Industry Company. Our products are reliable and highly popular with customers from Germany, Britain, Kuwait, Saudi Arabia, Iran, Syria, Jordan, South Korea, New Zealand, Thailand, Indonesia, the Philippines, and many other countries.

Products Type

- * Activated alumina Desiccant * Activated alumina for Hydrogen Peroxide * Activated alumina for sulfur recovery
- * Activated alumina catalyst carrier * Activated alumina ball for defluorination agent
- > * Activated alumina for removal of chloride * Activated alumina powder
- * Catalyst
- * Impregnated activated alumina
- * Molecular Sieve 13X * Molecular 5A * Molecular 4A * Molecular 3A * Molecular sieve powder
- * Pseudo boehmite
- * Alumina balls

Learn more about desiccant and more alumina products details , please email or call us. Our expert staff are happy to answer any questions you may have – just call us or e-mail us to ask.



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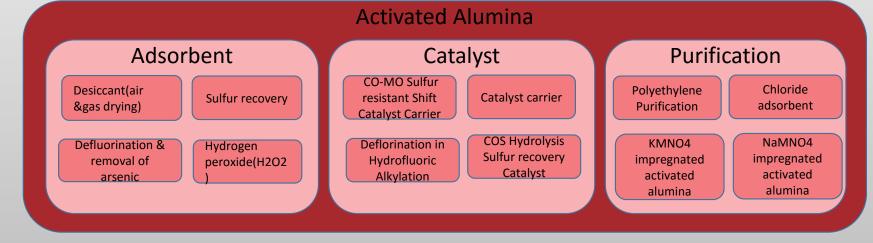
Xiangrun's Activated alumina

Activated Alumina

Activated alumina is a high-surface-area, highly porous form of aluminum oxide. It can adsorb gases and liquids without changing its form. It works as a desiccant through adsorption. As air passes through the alumina, the water in the air sticks it and becomes trapped and air that passes through an activated alumina filter is dried out. Even if immersed in a liquid,AA won't fall apart or soften. You can restore the original adsorption efficiency of activated alumina by heating it to any temperature from 350° to 600° F (177° to 316° C). When the desiccant is heated as described above, the water stored in it is released. This means that filters with AA can be reused over and over again.

Available Types of Activated Alumina

Activated alumina has several applications, like desiccant, catalyst carrier, sulfur recovery, and others. After adding Different additive, activated alumina is used for catalyst and purification, like dechlorination agent, polyethylene purification And others.

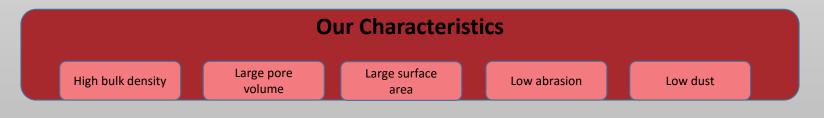




Activated alumina

Technical data for adsorbent

Technical Parameter								
Appearance		white, sphere, odourless, insoluble in water, innocuous						
Application		Adsorbent	defluorination	adsorption H2O2	catalyst carrier	Dehydrating and drying in air separation		
Tipo de crist	Tipo de cristal		х-р	У	У	х-р		
shamical Composition	Al ₂ O ₃ %	≥93	≥93	≥93	≥93	≥93		
chemical Composition	Na ₂ O %	≤0.40	≤0.3	0.3-1.0	≤0.35	≤0.4		
LOI	%	6-8	6-8	≤8	≤5	6-8		
Bulk density	g/ml	≥0.75	≥0.75	0.65-0.8	0.45-0.95	≥0.75		
Surface area	m/̇́g	≥320	≥300	250-280	10-380	≥350		
Pore Volume	ml/g	≥0.42	≥0.40	0.40-0.46	≥0.45	≥0.42		
Satic Adsorption(RH=60%)	%	water adsorption 17-19	Fluorine adsorption 0.12	water adsorption 50	water adsorption 50	water adsorption 17-19		
Active	%			56-62				
Attrition Loss	%	≤1.0				≤0.8		
Crushing Strength (N/Particle)	φ1-2mm	≥50	≥40			≥50		
	φ2-3mm	≥70	≥80	≥80	≥40	≥70		
	ф3-5mm	≥160	≥120	≥100	≥60	≥160		
	ф4-6mm	≥200		≥130	≥80	≥200		
	φ5-7mm	≥240				≥240		
	ф6-8mm	≥260				≥260		



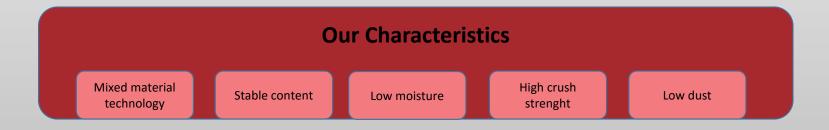
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Technical data for Impregnated activated alumina

Item	Unit	Technical requirement				
Particle size	mm	2-4	3-5	4-6		
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	m²/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		
H2S Capacity	g/ml	0.85-1.2	0.85-1.2	0.85-1.2		



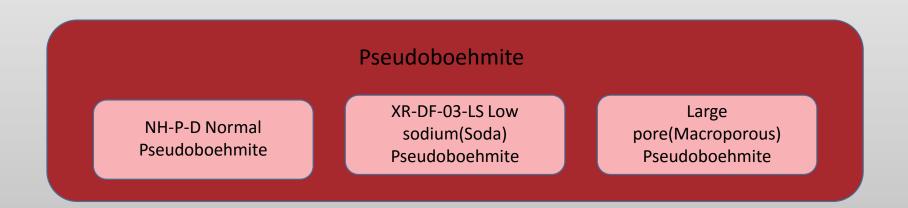
XiangRun's Pseudoboehmite

Pseudoboehmite

Pseudoboehmite alumina is also called pseudo boehmite, which is supplied as loosely agglomerated, easily dispersed, spray-dried powders (about 50 microns mean diameter) possessing high-purity, high surface area and low bulk density. Each Versal alumina particle is built from nominal 30 angstrom (3.0 nm) crystallites through a unique acid-base precipitation process using a proprietary reactor configuration that allows control of density, particle morphology, colloidal dispersibility and thermal conversion processes.

Pseudo boehmite is material of catalyst, binder, desiccant and their carrier. It used in nitrogen fertilizer, environmental protection, medicine, petrochemical industry, refractory and other industries, which is the most widely used material of catalyst and catalyst carrier.

Available Types of Pseudoboehmite





Pseudoboehmite

Technical data

Item	Unit	Mac	roporous Pseudobo	Low sodium Pseudoboehmite	Common Pseudoboehmite	
		NH-P-DF-1	NH-P-DF-2	NH-P-DF-3	XR-DF-03-LS (NH-P-DF)	NH-P-D
Fe ₂ O ₃	%	≤0.015	≤0.015	≤0.015	≤0.015	≤0.015
Na ₂ O	%	≤0.05	≤0.05	≤0.05	≤0.1	≤0.30
SiO ₂	%	≤0.2	1-2	2-4	≤0.2	≤0.2
Bulk density	g/ml	≤0.70	≤0.70	≤0.70	≤0.70	≤0.70
Surface area	ml∕g	≥320	≥320	≥380	≥260	≥260
Pore Volume	ml/g	0.85-0.95	0.9-1.0	1.0-1.2	≥0.34	≥0.34
Dry basis	%	≥70	≥70	≥70	≥70	≥65
impurity	%	≤3	≤3	≤3	≤3	≤3
Peptizing index	%				≥97	≥97



Alumina balls

Our alumina ball(also called alumina ceramic ball) is made of α alumina (α aluminium oxide--the most thermodynamically stable form) by cool isostatic pressing and fired at a very high temperature in the tunnel kiln. Our alumina ball product series include: alumina grinding ball for grinding, alumina packing balls and inert alumina ball/ceramic ball for tower packing, catalyst bed support, column internals and catalyst carrier.

Available Types of Alumina balls





Alumina Balls

Technical data

Performance Index	Grinding balls			Packing balls			
Particle Size	0.5·95mm						
Alumina (%)	92	95	× 02	≥92	≥99		
Si2O3	≤5	≤5	> 92	≤5	≤5		
Fe2O3 (%)	≤0.02	≤0.02	<1%	≤0.23	≤0.04		
Hardness(Mosh)	9	9	>6.5	≥9	≥9.5		
Water Absorption (%)	≤0.01	≤0.01	<0.5	≤4	≤5		
Volume Density (g/cm3)	≥3.60	≥3.70	2.3-2.4	≥3.3	≥3.7		
Compression Strength MPa	≥2000	≥2500	-	≥2000	≥2500		
Abrasion(‰)	≤0.10	≤0.08	_	≤0.10	≤0.10		
Color	White	White	Grey	White	White		

Our Characteristics

high specific gravity and density

Low abrasion, corrosion resistance and wear resistance

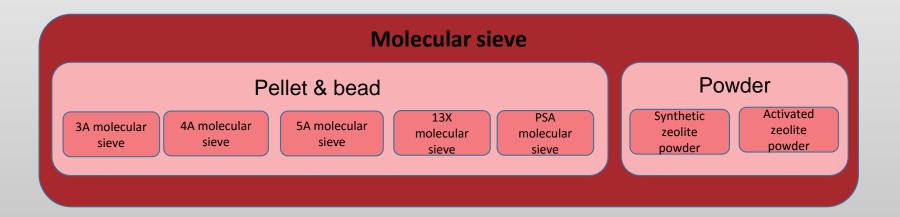
withstands high temperature

Molecular Sieves



Molecular sieve usually means zeolite molecular sieve, it is crystalline, highly porous materials, which belongs to the class of aluminosilicates. The crystals of molecular sieve is characterized by a three-dimensional pore system, with pores of precisely defined diameter. Molecular sieve adsorbent, this diameter is in the dimension of the size of molecules such as water, CO₂ and H₂S.

Available Types of Molecular sieve



Molecular sieve

Technical data- Simple

Durananta	Unit	Bead		Pellet		Nata
Property		8X12	4X8	1/16"	1/8"	Note
Static Water Adsorption	%wt	≥ 21.00	≥ 21.00	≥ 20.00	≥ 20.00	RH50% , 25℃
Crush Strength	N	≥ 30.00	≥ 80.00	≥ 30.00	≥ 70.00	Average 25 pcs
Crush Strength	lbs	≥ 7.00	≥ 18.00	≥ 7.00	≥16.00	Average 25 pcs
Bulk Density	g/ml	≥ 0.70	≥ 0.70	≥ 0.65	≥ 0.65	Settled
Bulk Density	lbs/ft ³	≥ 43.00	≥ 43.00	≥ 40.00	≥ 40.00	Settled
Loss on Ignition	%wt	≤ 1.50	≤ 1.50	≤ 1.50	≤ 1.50	575°C,1hr
Loss on Attritioin	%wt	≤ 0.10	≤ 0.10	≤ 0.30	≤ 0.30	
Particle Ratio	%	≥ 97.00	≥ 99.00	~	~	



Package & Loading













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Thanks a lot for your visit!

We trust our best quality, best service, and competitive price could let our customers believe in us.

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