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中国 · 江西

萍乡市荣建环保化工填料有限公司

Ping xiang Rong jian environmental protection chemical packing Co., LTD.

- Saving Energy Connect Us World And Future
- Located in Pingxiang City
- was famous as the "Hometown of Tower Packing."
- With over 15 years of industry experience in Manufacturing &Exporting.

蜂窝活性炭

Honeycomb activated carbon

HONEYCOMB ACTIVATED CARBON

ACTIVATED CARBON

蜂窝活性炭产品特性

本产品采用优质煤为原料，经高温化而成。外观为黑色，无毒无味、空隙结构发达、具有吸附能力强、耐磨强度高特性。广泛应用于化工、环保、电厂、电子、石化、养殖、医药、海运等行业的溶剂回收、触煤载体、气相吸附和水质净化领域。

CHARACTERISTICS OF HONEYCOMB ACTIVATED CARBON PRODUCTS

THIS PRODUCT IS MADE OF HIGH-QUALITY COAL THROUGH HIGH TEMPERATURE. THE APPEARANCE IS BLACK, NON-TOXIC AND TASTELESS, WITH DEVELOPED VOID STRUCTURE, STRONG ADSORPTION CAPACITY AND HIGH WEAR RESISTANCE. IT IS WIDELY USED IN SOLVENT RECOVERY, COAL CONTACT CARRIER, GAS PHASE ADSORPTION AND WATER PURIFICATION IN CHEMICAL INDUSTRY, ENVIRONMENTAL PROTECTION, POWER PLANT, ELECTRONICS, PETROCHEMICAL, AQUACULTURE, MEDICINE, SHIPPING AND OTHER INDUSTRIES.

技术工艺 TECHNICAL PROCESS

该产品拥有优良的性能，其结构为多孔蜂窝状，具有孔隙，结构发达，比表面积大，流体阻力小等优点。

IT IS MAINLY USED TO REMOVE POLLUTANTS IN THE AIR AND TO SEPARATE AND PURIFY GASES

功能特性 FUNCTIONAL CHARACTERISTICS

适用于大风量，低浓度工厂有机废品治理，适用于工业废气处理，以及生活场景中的除味等并可做为催化剂载体。

IT IS SUITABLE FOR THE TREATMENT OF ORGANIC WASTE IN HIGH AIR VOLUME, LOW CONCENTRATION FACTORIES, INDUSTRIAL WASTE GAS, AND DEODORIZATION IN DAILY LIFE. IT CAN ALSO BE USED AS CATALYST CARRIER.

产品参数

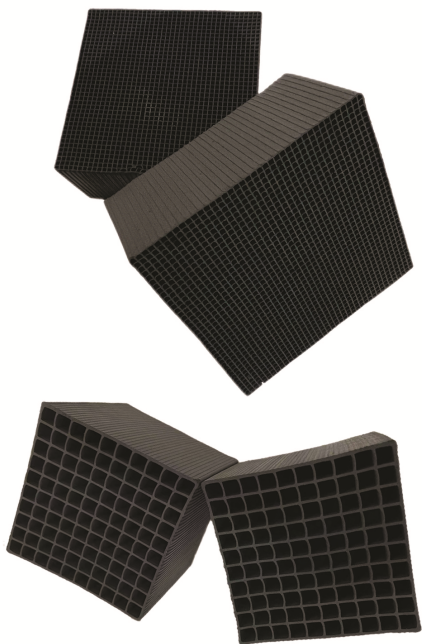
规格 (mm) :50*50*100mm
100*100*100mm
正常抗压强度：大于0.8Mpa
使用温度：小于400摄氏度
孔径：1.5mm~8mm
孔塔速度：0.8米/秒
比表面积：大于700平方/克
外观：产品表面平整，没有裂纹

PRODUCT PARAMETERS

SPECIFICATION (MM): 50 * 50 * 100MM
100*100*100MM
NORMAL COMPRESSIVE STRENGTH:
GREATER THAN 0.8MPA
SERVICE TEMPERATURE: LESS THAN 400 °C
APERTURE: 1.5MM ~ 8MM
HOLE TOWER SPEED: 0.8M/S
SPECIFIC SURFACE AREA: MORE
THAN 700 M2 / G
APPEARANCE: THE SURFACE OF THE
PRODUCT IS FLAT WITHOUT CRACKS

项目 PROJECT	普通蜂窝碳 ORDINARY HONEYCOMB CARBON	耐水蜂窝碳 WATER RESISTANT HONEYCOMB CARBON
规格 (mm) Specification (mm)	100*100*100 100*100*50 50*50*100 50*50*50	50*50*100 50*50*50 100*100*100 100*100*50
碘吸附值 (mg/g) Iodine adsorption value (mg/g)	≥900	≥900
比表面积 (m ² /g) Specific surface area (m ² /g)	950	950
四氯化碳吸附率 Carbon tetrachloride adsorption rate	≥70	≥70
苯吸附 Benzene adsorption	≥65	≥65
正抗压强度 Normal compressive strength	≥0.7	≥0.8
侧抗压强度 Lateral compressive strength	≥0.4	≥0.4
水分 water content	≤5	≤2
孔密度 Pore density	50-300	50-300
体密度 Bulk density	0.3-0.55	0.3-0.55
使用温度 Service temperature	≤400	≤400
脱附温度 Desorption temperature	≤120	≤120
空塔风速 Hole tower wind speed	0.8	0.8
耐水性能 Water resistance	不能	能

备注：性能指标或尺寸规格可按客户要求制作
Remarks: the performance index or size specification can be made according to the customer's requirements



蜂窝活性炭

Honeycomb activated carbon

HONEYCOMB ACTIVATED CARBON

ACTIVATED CARBON

蜂窝活性炭应用

1. 净化废气

蜂窝活性炭可广泛用于各种气体净化设备和废气治理工程，实践证明净化效果比普通好。用蜂窝活性炭可不同程度去除的污染物有：二氧化碳，氮氧化物，二硫化碳，四氯化碳(CTC)，硫化氢，氯，苯，二甲苯，丙酮，乙醇，乙醚，甲醇，乙酸，苯乙烯，轻气，汽油，煤油等。防水蜂窝状活性炭可用于吸附净化，分离和回收，催化剂载体和环境工业，特别适用于净化大流量和低浓度的有机废气。

2. 浸渍有化学试剂的改性蜂窝状活性可以吸收酸雾，碱雾，胺，硫醇，二氧化硫，硫化氢，氨，汞，一氧化碳，二噁英等。

3. 智能马桶除异味。

4. 净水魔方。

APPLICATION OF HONEYCOMB ACTIVATED CARBON

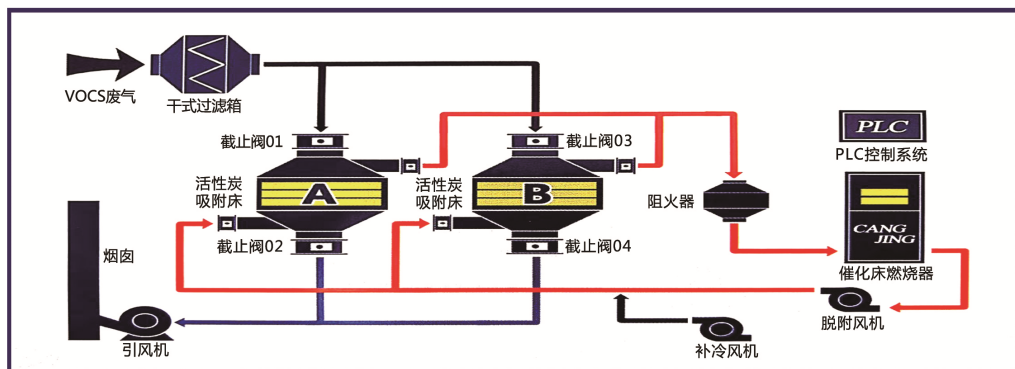
1. PURIFIED EXHAUST GAS

HONEYCOMB ACTIVATED CARBON CAN BE WIDELY USED IN VARIOUS GAS PURIFICATION EQUIPMENT AND WASTE GAS TREATMENT PROJECTS, AND PRACTICE HAS PROVEN THAT THE PURIFICATION EFFECT IS BETTER THAN ORDINARY. THE POLLUTANTS THAT CAN BE REMOVED TO VARYING DEGREES USING HONEYCOMB ACTIVATED CARBON INCLUDE CARBON DIOXIDE, NITROGEN OXIDES, CARBON DISULFIDE, CARBON TETRACHLORIDE (CTC), HYDROGEN SULFIDE, CHLORINE, BENZENE, XYLENE, ACETONE, ETHANOL, ETHER, METHANOL, ACETIC ACID, STYRENE, LIGHT GAS, GASOLINE, KEROSENE, ETC. WATERPROOF HONEYCOMB ACTIVATED CARBON CAN BE USED FOR ADSORPTION PURIFICATION, SEPARATION AND RECOVERY, CATALYST CARRIER, AND ENVIRONMENTAL INDUSTRY, ESPECIALLY SUITABLE FOR PURIFYING HIGH FLOW AND LOW CONCENTRATION ORGANIC WASTE GAS.

2. THE MODIFIED HONEYCOMB LIKE ACTIVITY IMPREGNATED WITH CHEMICAL REAGENTS CAN ABSORB ACID MIST, ALKALI MIST, AMINE, MERCAPTAN, SULFUR DICHLORIDE, HYDROGEN SULFIDE, AMMONIA, MERCURY, CARBON MONOXIDE, DIOXINS, ETC.

3. INTELLIGENT TOILET FOR ODOR REMOVAL.

4. WATER PURIFICATION CUBE.



蜂窝活性炭应用特点

1、蜂窝状活性炭基材结构为立体三维状结构，增加了气体与活性炭的接触时间和接触面积，从而有效地提高了吸附效率。

2、风阻小在2米/秒的风速下，风阻小于480帕。

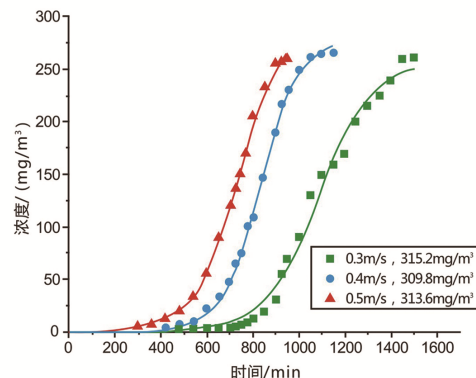
3、既有良好的吸附性能，又能起到初效集尘的作用。

蜂窝活性炭使用说明

1、可直接使用或置入净化柜、吸附床使用，若废气浓度高，排放量大，可两台净化柜、吸附床轮换使用。

2、在使用过程中，尽量避免温度过高，温度过高会降低吸附量，吸附量随温度上升而下降。

3、要避免高含尘量和油雾，因为焦油尘雾会堵塞活性炭微孔，增加阻力，降低吸附效果，如果使用环境含有大量浓尘和焦油，应加装前级除尘过滤才能达到更佳使用效果和较长使用寿命。



不同风速下蜂窝活性炭对VOCs的吸附穿透曲线

APPLICATION CHARACTERISTICS OF HONEYCOMB ACTIVATED CARBON

1. THE HONEYCOMB SHAPED ACTIVATED CARBON SUBSTRATE STRUCTURE IS A THREE-DIMENSIONAL STRUCTURE, WHICH INCREASES THE CONTACT TIME AND CONTACT AREA BETWEEN GAS AND ACTIVATED CARBON, THEREBY EFFECTIVELY IMPROVING ADSORPTION EFFICIENCY.

2. AT A WIND SPEED OF 2 METERS/SECOND, THE WIND RESISTANCE IS LESS THAN 480 PA.

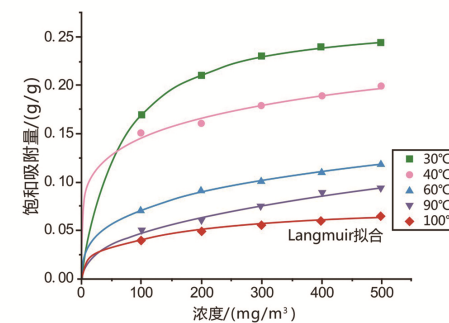
3. IT HAS GOOD ADSORPTION PERFORMANCE AND CAN ALSO PLAY A ROLE IN INITIAL DUST COLLECTION.

INSTRUCTIONS FOR USING HONEYCOMB ACTIVATED CARBON

1. IT CAN BE DIRECTLY USED OR PLACED IN A PURIFICATION CABINET OR ADSORPTION BED FOR USE. IF THE EXHAUST GAS CONCENTRATION IS HIGH AND THE EMISSION IS LARGE, TWO PURIFICATION CABINETS AND ADSORPTION BEDS CAN BE ROTATED FOR USE.

2. DURING USE, TRY TO AVOID EXCESSIVE TEMPERATURE AS IT WILL REDUCE THE ADSORPTION CAPACITY, WHICH DECREASES AS THE TEMPERATURE INCREASES.

3. TO AVOID HIGH DUST CONTENT AND OIL MIST, AS TAR DUST MIST CAN CLOG THE MICROPORES OF ACTIVATED CARBON, INCREASE RESISTANCE, AND REDUCE ADSORPTION EFFICIENCY. IF THE USE ENVIRONMENT CONTAINS A LARGE AMOUNT OF CONCENTRATED DUST AND TAR, A FRONT STAGE DUST REMOVAL FILTER SHOULD BE INSTALLED TO ACHIEVE BETTER USE EFFECT AND LONGER SERVICE LIFE.



蜂窝活性炭的VOCs吸附等温线

蜂窝沸石分子筛系列

Honeycomb zeolite molecular sieve series

什么是蜂窝沸石分子筛?

WHAT IS HONEYCOMB ZEOLITE MOLECULAR SIEVE?

蜂窝沸石分子筛简介

INTRODUCTION TO HONEYCOMB ZEOLITE MOLECULAR SIEVE

蜂窝状分子筛的主要材料是天然沸石，是由 $\text{SiO}_2/\text{Al}_2\text{O}_3$ 和碱性金属或碱土金属组成的无机微孔材料，其内孔体积占总体积的40-50%，比表面积300-100 m^2/g ，具有耐高温、不可燃、良好的热稳定性和水热稳定性等特点，是一种吸附性能好、无二次污染、可高温再生的高效分子筛载体，比同类活性炭提高40%效率，在吸附、分离、催化和环境领域得到广泛应用，更适合于大风量，低浓度的有机废气治理。

THE MAIN MATERIAL OF HONEYCOMB MOLECULAR SIEVE IS NATURAL ZEOLITE, WHICH IS AN INORGANIC MICROPOROUS MATERIAL COMPOSED OF $\text{SiO}_2 / \text{Al}_2\text{O}_3$ AND ALKALINE METAL OR ALKALINE EARTH METAL. ITS INNER PORE VOLUME ACCOUNTS FOR 40-50% OF THE TOTAL VOLUME AND ITS SPECIFIC SURFACE AREA IS 300-100 M^2 / G . IT HAS THE CHARACTERISTICS OF HIGH TEMPERATURE RESISTANCE, NONFLAMMABILITY, GOOD THERMAL STABILITY AND HYDROTHERMAL STABILITY. IT IS A KIND OF INORGANIC MICROPOROUS MATERIAL WITH GOOD ADSORPTION PERFORMANCE AND NO SECONDARY POLLUTION. THE HIGH-EFFICIENCY MOLECULAR SIEVE CARRIER THAT CAN BE REGENERATED AT HIGH TEMPERATURE IMPROVES THE EFFICIENCY BY 40% COMPARED WITH SIMILAR ACTIVATED CARBON. IT IS WIDELY USED IN THE FIELDS OF ADSORPTION, SEPARATION, CATALYSIS AND ENVIRONMENT. IT IS MORE SUITABLE FOR THE TREATMENT OF ORGANIC WASTE GAS WITH LARGE AIR VOLUME AND LOW CONCENTRATION.

蜂窝沸石分子筛分类

CLASSIFICATION OF HONEYCOMB ZEOLITES AND MOLECULAR SIEVES

沸石分子筛产品为：微孔分子筛、介孔分子筛。

(1) 分子孔径2mm以下为微孔分子筛2-50nm为介孔分子筛(50nm以上为大孔分子筛)，介孔分子筛具有极高的比表面积、规则有序的孔道结构、狭窄的孔径分布、孔径大小连续可调等特点，使得它在很多微孔分子筛难以完成的大分子的吸附、分离。及催化反应中发挥重要作用。

(2) 所以在选用时应根据有机废气成分的不同，配置不同性质及孔径的分子筛材料，做到有针对性进行有机废气处理，满足设计要求、达到排放标准。

ZEOLITE MOLECULAR SIEVE PRODUCTS INCLUDE MICROPOROUS MOLECULAR SIEVE AND MESOPOROUS MOLECULAR SIEVE.

(1) MICROPOROUS MOLECULAR SIEVE WITH MOLECULAR PORE DIAMETER LESS THAN 2MM AND MESOPOROUS MOLECULAR SIEVE WITH MOLECULAR PORE DIAMETER OF 2-50NM (MACROPOROUS MOLECULAR SIEVE WITH MOLECULAR PORE DIAMETER MORE THAN 50NM). MESOPOROUS MOLECULAR SIEVE HAS THE CHARACTERISTICS OF HIGH SPECIFIC SURFACE AREA, REGULAR AND ORDERLY PORE STRUCTURE, NARROW PORE SIZE DISTRIBUTION AND CONTINUOUS ADJUSTABLE PORE SIZE, WHICH MAKES IT DIFFICULT TO COMPLETE THE ADSORPTION AND SEPARATION OF MACROMOLECULES IN MANY MICROPOROUS MOLECULAR SIEVES. AND CATALYTIC REACTION.

(2) THEREFORE, MOLECULAR SIEVE MATERIALS WITH DIFFERENT PROPERTIES AND PORE SIZES SHOULD BE CONFIGURED ACCORDING TO THE DIFFERENT COMPONENTS OF ORGANIC WASTE GAS, SO AS TO ACHIEVE TARGETED ORGANIC WASTE GAS TREATMENT, MEET THE DESIGN REQUIREMENTS AND MEET THE EMISSION STANDARDS.

性能 PERFORMANCE	微孔 MICROPORE	介孔 MESOPOROUS
外形尺寸 OVERALL DIMENSION	100*100*100	100*100*100
孔数 (CM ⁻²) NUMBER OF HOLES (CM ²)	16	16
孔壁厚(MM) HOLE WALL THICKNESS (MM)	0.6	0.6
纵向耐夺强度 (MPA) LONGITUDINAL TENSILE STRENGTH (MPA)	0.8	0.9
横向耐夺强度 (MPA) TRANSVERSE TENSILE STRENGTH (MPA)	0.32	0.4
密度 (G/CM ³) DENSITY (G / CM ³)	0.50	0.44
比表面积 (m ² /g) SPECIFIC SURFACE AREA (M ² / G)	>900	>900
苯吸附率 (%) BENZENE ADSORPTION RATE (%)	>90%	>90%
软化点 (°C) SOFTENING POINT (°C)	>900	>900

蜂窝沸石分子筛用途

APPLICATION OF HONEYCOMB ZEOLITE MOLECULAR SIEVE

沸石分子筛是一种十分优良的吸附剂，广泛用于基本有机化工、石油化工的生产上，在有害气体的治理上，也长用于 SO_2 、 NO_x 、 CO 、 CO_2 、 NH_3 、 CCl_4 、水蒸汽和气态碳氢化合物废气的净化，以及生化、油漆工业、地下场所、皮革工厂、动物饲养场所的空气净化、脱臭、烟道气的臭气吸附、汞蒸气的去除等。

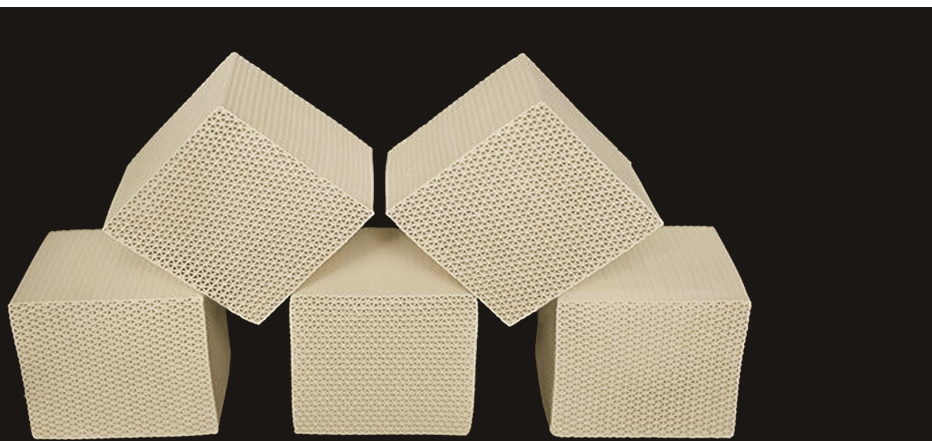
ZEOLITE MOLECULAR SIEVE IS A VERY EXCELLENT ADSORBENT, WHICH IS WIDELY USED IN THE PRODUCTION OF BASIC ORGANIC CHEMICAL INDUSTRY AND PETROCHEMICAL INDUSTRY. IN THE TREATMENT OF HARMFUL GASES, IT IS ALSO USED FOR THE PURIFICATION OF SO_2 , NO_x , CO , CO_2 , NH_3 , CCl_4 , STEAM AND GASEOUS HYDROCARBON WASTE GAS, AS WELL AS THE AIR PURIFICATION, DEODORIZATION AND ODOR ADSORPTION OF FLUE GAS, REMOVAL OF MERCURY VAPOR, ETC.

蜂窝沸石分子筛突出优势

PROMINENT ADVANTAGES OF HONEYCOMB ZEOLITE MOLECULAR SIEVE

1. 吸附选择性强。分子筛的孔径大小整齐均匀，又是一种离子型吸附剂。因此他能根据分子的大小及极性的不同进行选择吸附。可有效的从饱和碳氢化合物把乙烯、丙烯除去，把乙炔从乙烯中除去，这一点是由它的强极性决定的。
2. 吸附能力强。即使气体的组成浓度很低，仍然具有吸附能力。
3. 受温度影响小、在较高的温度下仍有较大的吸附能力，而其他吸附剂却受温度的影响很大。
4. 可高温再生，再生效率高，安全性高。
5. 抗中毒性强，热稳定性好。

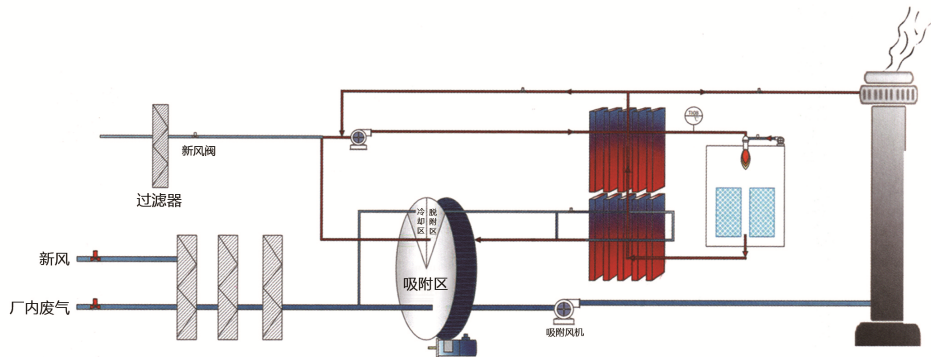
1. STRONG ADSORPTION SELECTIVITY. THE PORE SIZE OF MOLECULAR SIEVE IS NEAT AND UNIFORM, AND IT IS ALSO AN IONIC ADSORBENT. THEREFORE, IT CAN SELECTIVELY ADSORB ACCORDING TO THE SIZE AND POLARITY OF MOLECULES, EFFECTIVELY REMOVE ETHYLENE AND PROPYLENE FROM SATURATED HYDROCARBONS AND ACETYLENE FROM ETHYLENE, WHICH IS DETERMINED BY ITS STRONG POLARITY.
2. STRONG ADSORPTION CAPACITY. EVEN IF THE COMPOSITION CONCENTRATION OF THE GAS IS VERY LOW, IT STILL HAS ADSORPTION CAPACITY.
3. IT IS LESS AFFECTED BY TEMPERATURE AND STILL HAS GREAT ADSORPTION CAPACITY AT HIGHER TEMPERATURE, WHILE OTHER ADSORBENTS ARE GREATLY AFFECTED BY TEMPERATURE.
4. IT CAN BE REGENERATED AT HIGH TEMPERATURE, WITH HIGH REGENERATION EFFICIENCY AND HIGH SAFETY.
5. STRONG TOXICITY RESISTANCE AND GOOD THERMAL STABILITY.



蜂窝沸石分子筛系列

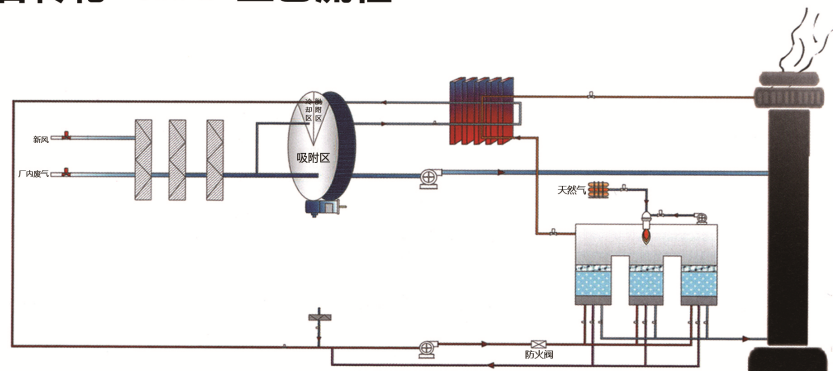
Honeycomb zeolite molecular sieve series

沸石转轮+CO工艺流程



“沸石转轮吸附浓缩+催化氧化 (CO) 工艺。分子筛转轮将低浓度大风量的废气进行吸附浓缩后进入后续的催化氧化单元，燃烧生成二氧化碳和水达标排放。”

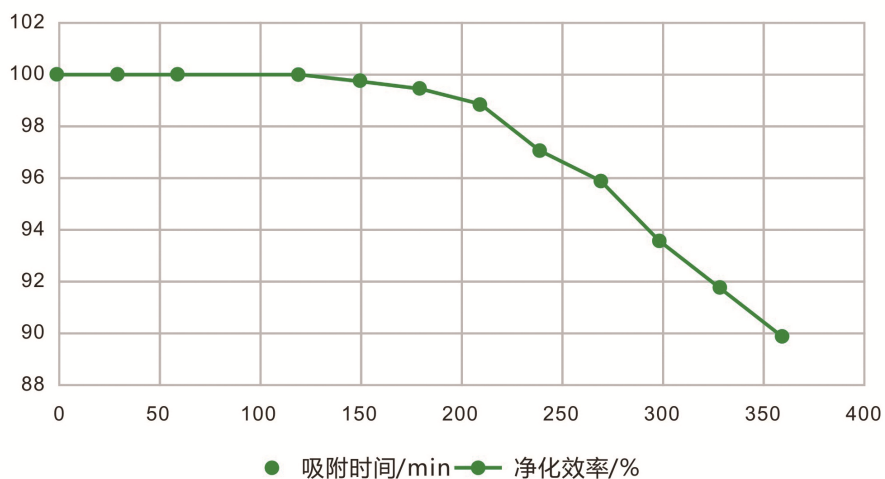
沸石转轮+RTO 工艺流程



“沸石转轮吸附浓缩+蓄热式焚烧氧化 (RTO) 工艺。分子筛转轮将低浓度大风量的废气进行吸附浓缩后进入后续的蓄热式焚烧氧化单元，燃烧生成二氧化碳和水达标排放。”

VOCs处理数据

净化效率随时间变化曲线



沸石分子筛与活性炭的对比

产品名称	蜂窝状分子筛	产品名称	蜂窝状活性炭
比表面积	300m ² /g-800m ² /g	比表面积	600m ² /g-900m ² /g
密度	380-450g/cm ³	密度	400-450g/cm ³
吸水率	≤5%	吸水率	≤23%
纵向耐压强度	1Mpa	纵向耐压强度	0.7Mpa
横向耐压强度	0.8Mpa	横向耐压强度	0.3Mpa
使用温度	≤650℃	使用温度	≤400℃
使用寿命	> 2年	使用寿命	> 0.5年
脱附温度	200-250℃	脱附温度	90-120℃

催化剂系列

Catalyst series

CATALYST SERIES

贵金属催化剂

NOBLE METAL CATALYST



一、特点

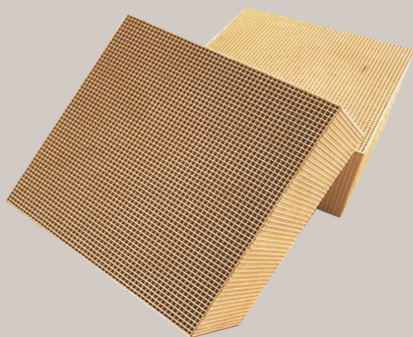
CHARACTERISTIC

贵金属催化剂一种能改变化学反应速度而本身又不参与反应最终产物的贵金属材料。几乎所有的贵金属都可用作催化剂，但常用的是铂、钯、铑、银、钨等，其中尤以铂、铑应用最广。它们的电子轨道都未填满，表面易吸附反应物，且强度适中，利于形成中间“活性化合物”，具有较高的催化活性，同时还具有耐高温、抗氧化、耐腐蚀等综合优良特性，成为最重要的催化剂材料。

PRECIOUS METAL CATALYST IS A PRECIOUS METAL MATERIAL THAT CAN CHANGE THE RATE OF CHEMICAL REACTIONS WITHOUT ITSELF PARTICIPATING IN THE FINAL PRODUCT OF THE REACTION. ALMOST ALL PRECIOUS METALS CAN BE USED AS CATALYSTS, BUT COMMONLY USED ARE PLATINUM, PALLADIUM, RHODIUM, SILVER, RUTHENIUM, ETC. AMONG THEM, PLATINUM AND RHODIUM ARE THE MOST WIDELY USED. THEIR ELECTRONIC ORBITALS ARE NOT FULLY FILLED, AND THEIR SURFACES ARE PRONE TO ADSORBING REACTANTS WITH MODERATE STRENGTH, WHICH IS CONDUCTIVE TO THE FORMATION OF INTERMEDIATE "ACTIVE COMPOUNDS" AND HAS HIGH CATALYTIC ACTIVITY. AT THE SAME TIME, THEY ALSO HAVE COMPREHENSIVE EXCELLENT CHARACTERISTICS SUCH AS HIGH TEMPERATURE RESISTANCE, OXIDATION RESISTANCE, AND CORROSION RESISTANCE, MAKING THEM THE MOST IMPORTANT CATALYST MATERIALS.

二、产品优势

PRODUCT ADVANTAGES



- 吸附量大：通过特殊工艺1-2NM PT基高活性组分，提高活性组分在载体表面的分散度

LARGE ADSORPTION CAPACITY: THROUGH SPECIAL PROCESSES OF 1-2NM PT BASED HIGHLY ACTIVE COMPONENTS, IMPROVE THE DISPERSITY OF ACTIVE COMPONENTS ON THE CARRIER SURFACE

- 催化活性高：加稀土助催化剂，实现催化剂表面高储氧、高比表面积、高分散度的特性，提高催化活性

HIGH CATALYTIC ACTIVITY: ADD RARE EARTH CO CATALYST TO REALIZE THE CHARACTERISTICS OF HIGH OXYGEN STORAGE, HIGH SPECIFIC SURFACE AREA AND HIGH DISPERSION ON THE CATALYST SURFACE, AND IMPROVE CATALYTIC ACTIVITY

- 反应温度低：纳米级活性组分，提高了反应活性点位的分散性，催化反应温度更低

LOW REACTION TEMPERATURE: NANOSCALE ACTIVE COMPONENTS IMPROVE THE DISPERSION OF REACTION ACTIVE SITES, RESULTING IN LOWER CATALYTIC REACTION TEMPERATURE

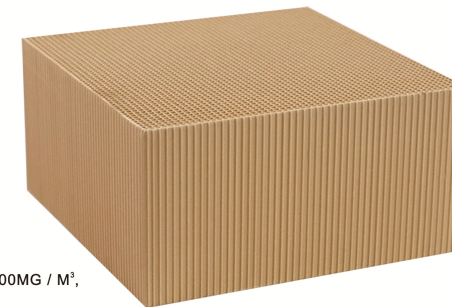
三、性能指标

PERFORMANCE INDEX

空速：10000-20000h⁻¹

VOCs浓度：4000mg/m³

净化效率≥98%

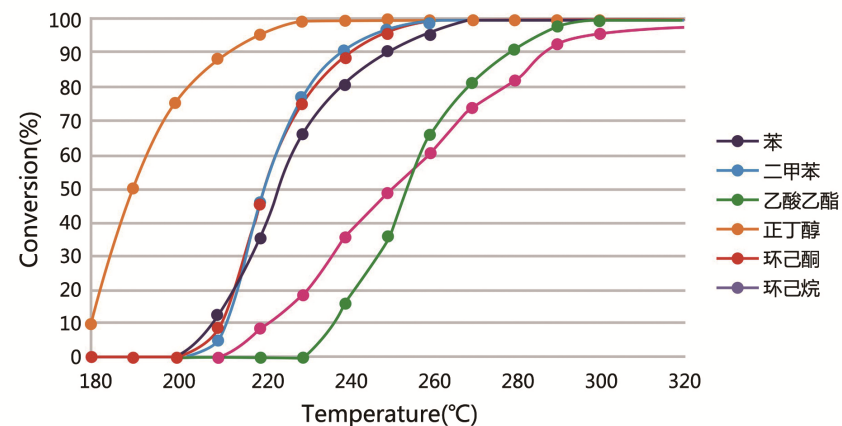


AIR SPEED: 10000-20000H⁻¹, VOCs CONCENTRATION: 4000MG / M³, PURIFICATION EFFICIENCY ≥ 98%

(按照客户要求添加靶金、铂金或其他贵金属)

CPSs种类	转化效率98%的温度°C CONVERSION EFFICIENCY 98% TEMPERATURE °C	VOCs种类 VOCs TYPE	转化效率98%的温度°C CONVERSION EFFICIENCY 98% TEMPERATURE °C
苯 BENZENE	250	丙酮 ACETONE	270
甲苯 TOLUENE	250	丙烯 PROPYLENE	290
二甲苯 XYLENE	250	丙烷 PROPANE	340
乙酸乙酯 ETHYL ACETATE	280	甲醇 METHANOL	200
乙酸 ACETIC ACID	280	正己烷 HEXANE	320
N,N-二甲基甲酰胺 N,N-DIMETHYLFORMAMIDE	300	甲醛 FORMALDEHYDE	160

废气转化率温度曲线



柱状系列活性炭

Granular activated carbon

COLUMNAR ACTIVATED CARBON

柱状活性炭（椰壳、煤制、木制）



柱状活性炭是以优质煤、椰壳、木屑为原料，经系列生产工艺加工而成，外观呈黑色圆柱形颗粒，广泛应用于气体处理、污水处理、脱硫脱硝、溶剂回收、制氮机空分设备、喷漆车间等领域。在有毒气体的净化，废气处理，工业和生活用水的净化处理，溶剂回收等方面也比较广泛。

COLUMNAR ACTIVATED CARBON IS MADE OF HIGH-QUALITY COAL, COCONUT SHELL AND SAWDUST THROUGH A SERIES OF PRODUCTION PROCESSES. BLACK CYLINDRICAL PARTICLES ARE WIDELY USED IN GAS TREATMENT, SEWAGE TREATMENT, DESULFURIZATION AND DENITRATION, SOLVENT RECOVERY AND NITROGEN GENERATOR AIR SEPARATION EQUIPMENT, PAINTING WORKSHOP AND OTHER FIELDS. IN THE PURIFICATION OF TOXIC GASES, WASTE GAS TREATMENT, INDUSTRIAL AND DOMESTIC WATER PURIFICATION TREATMENT AND SOLVENT RECOVERY ARE ALSO WIDELY USED.

一、常规直径 PRODUCT FEATURES

有0.9mm、1.5mm、2mm、3mm、4mm、5mm、9mm。柱状炭的长度一般在其直径的1.5倍左右。其中9mm的柱状活性炭通常被作为脱硫脱硝用炭（行业内也称为活性焦或者大颗粒）

THERE ARE 0.9MM, 1.5MM, 2MM, 3MM, 4MM, 5MM, 9MM. THE LENGTH OF COLUMNAR CARBON IS GENERALLY ABOUT 1.5 TIMES ITS DIAMETER. 9MM COLUMNAR ACTIVATED CARBON IS USUALLY USED AS CARBON FOR DESULFURIZATION AND DENITRIFICATION (ALSO KNOWN AS ACTIVATED COKE OR LARGE PARTICLES IN THE INDUSTRY)

二、产品参数 PRODUCT PARAMETERS

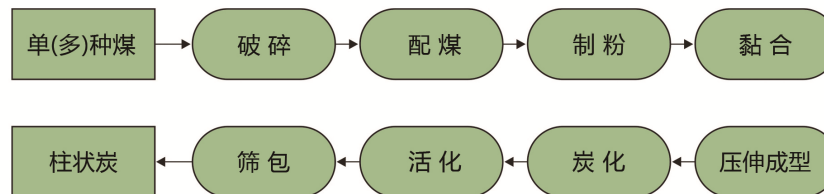
注：可按用户特殊要求供货

NOTE: IT CAN BE SUPPLIED ACCORDING TO THE SPECIAL REQUIREMENTS OF USERS

指标 INDEX	水分 WATER CONTENT	强度 STRENGTH	灰份 ASH	碘值 IODINE VALUE	四氯化碳吸附率 C.T.C	装填密度 FILLING DENSITY	粒径 PARTICLE SIZE
型号 MODEL	%	%	%	mg/g	%	g/L	nm
AM-3070	≤5	≥97	≤4	≥400-1100	50-80	400-550	2.0
AM-4070	≤5	≥97	≤4	≥400-1100	50-80	400-550	3.0
AM-4075	≤5	≥97	≤4	≥400-1100	50-80	400-550	3.0
AM-8×30	≤5	≥97	≤4	≥400-1100	50-80	400-550	2.4-0.5
AM-12×40	≤5	≥97	≤4	≥400-1100	50-80	400-550	1.5-0.44
AM-8×16 黄金行业用活性炭	≤5	≥97	≤4	≥400-1100	50-80	400-550	2.4-1.1
PK-8×12 黄金行业用活性炭	≤5	≥97	≤4	≥400-1100	50-80	400-550	3.4-1.5
AM-25×50 维尼龙用活性炭	≤5	≥97	≤4	≥400-1100	50-80	400-550	0.2-0.70

三、煤质柱炭生产工艺流程

PRODUCTION PROCESS OF COAL BASED COLUMN CARBON



四、柱状活性炭优点

由于采用优质木屑、椰壳为原料，制成的柱状活性炭比传统的煤质柱状炭灰份低、杂质少、气相吸附值、CTC占绝对优势。

煤柱状活性炭具有空隙结构发达，比面积大，吸附能力强，机械强度高，床层阻力小，化学稳定性好，易再生，经久耐用等优点。

产品孔径分布合理，达到最大吸附与脱附，从而大大提高产品的使用寿命(平均2-3年)，是普通煤质炭的1.4倍。

AS HIGH-QUALITY SAWDUST AND COCONUT SHELL ARE USED AS RAW MATERIALS, THE COLUMNAR ACTIVATED CARBON PRODUCED HAS LOWER ASH CONTENT, LESS IMPURITIES, GAS ADSORPTION VALUE AND ABSOLUTE ADVANTAGE OVER TRADITIONAL COAL COLUMNAR CARBON.

COAL COLUMNAR ACTIVATED CARBON HAS THE ADVANTAGES OF DEVELOPED PORE STRUCTURE, LARGE SPECIFIC AREA, STRONG ADSORPTION CAPACITY, HIGH MECHANICAL STRENGTH, SMALL BED RESISTANCE, GOOD CHEMICAL STABILITY, EASY REGENERATION, DURABILITY, ETC.

THE PORE SIZE DISTRIBUTION OF THE PRODUCT IS REASONABLE, ACHIEVING MAXIMUM ADSORPTION AND DESORPTION, GREATLY IMPROVING THE SERVICE LIFE OF THE PRODUCT (AVERAGE 2-3 YEARS), WHICH IS 1.4 TIMES THAT OF ORDINARY COAL BASED CARBON.

五、柱状活性炭适用性

- ① 气相吸附;
- ② 有机溶剂回收(苯系气体甲苯、醋酸纤维行业中的丙酮回收);
- ③ 杂质和有害气体祛除，废气回收;
- ④ 炼油厂、加油站、油库过量汽油回收;
- ⑤ 用于活性炭催化均四氯乙烯脱HCL制备三氯乙烯。

- ① GAS PHASE ADSORPTION;
- ② ORGANIC SOLVENT RECOVERY (BENZENE GAS TOLUENE, ACETONE RECOVERY IN THE ACETATE FIBER INDUSTRY);
- ③ REMOVAL OF IMPURITIES AND HARMFUL GASES, WASTE GAS RECOVERY;
- ④ EXCESSIVE GASOLINE RECOVERY IN REFINERIES, GAS STATIONS, AND OIL DEPOTS;
- ⑤ USED FOR CATALYTIC REMOVAL OF HCL FROM TETRACHLOROETHANE TO PREPARE TRICHLOROETHYLENE USING ACTIVATED CARBON.



颗粒系列活性炭

Granular series activated carbon

GRANULAR ACTIVATED CARBON

ACTIVATED CARBON

颗粒活性炭(椰壳、煤制、木制)

一、产品介绍 PRODUCT INTRODUCTION

1、制作方法：用优质无烟煤为原料，原材料经过破碎-筛选-炭化-活化-洗涤等一系列工序制成煤质颗粒活性炭

2、优点：具有比表面积大、吸附能力强、过滤效果佳、强度高、抗摩擦、耐冲洗、使用周期长、价格合理等优点

3、用途：起到空气净化、水质净化、气相吸附、脱硫脱硝、触媒载体等作用。广泛应用于城市污水处理、化工污水过滤、电厂锅炉废水氯根处理、电厂原水净化、工矿废水处理、自来水净化、污水净化过滤池、高尔夫球场的土壤改良工程、海养养殖水过滤、炭包制作等

4、规格大小：以(目)为单位(4-8目、6-12目、10-28目、12-20目、8-30目、12-30目、20-40目、30-60目)，以(毫米)为单位(1-2MM、2-4MM、3-5MM、4-8MM)

1. PRODUCTION METHOD: HIGH-QUALITY ANTHRACITE IS USED AS RAW MATERIAL, AND THE RAW MATERIAL IS MADE INTO COAL GRANULAR ACTIVATED CARBON THROUGH A SERIES OF PROCESSES SUCH AS CRUSHING, SCREENING, CARBONIZATION, ACTIVATION AND WASHING

2. ADVANTAGES: IT HAS THE ADVANTAGES OF LARGE SPECIFIC SURFACE AREA, GOOD ADSORPTION CAPACITY, GOOD FILTRATION EFFECT, HIGH STRENGTH, ANTI FRICTION, FLUSHING RESISTANCE, LONG SERVICE LIFE, AND REASONABLE PRICE

3. USAGE: IT PLAYS A ROLE IN AIR PURIFICATION, WATER QUALITY PURIFICATION, GAS PHASE ADSORPTION, DESULFURIZATION AND DENITRIFICATION, AND COAL CONTACT CARRIER. WIDELY USED IN URBAN SEWAGE TREATMENT, CHEMICAL SEWAGE FILTRATION, CHLORINE TREATMENT OF POWER PLANT BOILER SALT WATER, POWER PLANT RAW WATER PURIFICATION, INDUSTRIAL AND MINING WASTEWATER TREATMENT, TAP WATER PURIFICATION, SEWAGE PURIFICATION FILTRATION TANKS, SOIL IMPROVEMENT ENGINEERING OF GOLF COURSES, MARINE AQUACULTURE WATER FILTRATION, CHARCOAL BAG PRODUCTION, ETC

4. SPECIFICATION SIZE: IN (MESH) UNITS (4-8 MESH, 6-12 MESH, 10-28 MESH, 12-20 MESH, 8-30 MESH, 12-30 MESH, 20-40 MESH, 30-60 MESH), IN (MILLIMETERS) UNITS (1-2MM, 2-4MM, 3-5MM, 4-8MM)



二、产品参数 PRODUCT PARAMETERS

注：可按用户特殊要求供货

NOTE: IT CAN BE SUPPLIED ACCORDING TO THE SPECIAL REQUIREMENTS OF USERS

项目 PROJECT	参数 PARAMETER				
粒度 GRANULARITY	4-8、6-12、8-16、10-20、20-40、30-60、40-80				
碘值(mg/g) IODINE VALUE	≥700	≥800	≥900	≥1000	≥1200
比表面积(m ² /g) SPECIFIC SURFACE AREA	≥600	≥700	≥800	≥900	≥1100
四氯化碳ctc(%) TETRACHLOROMETHANE	≥38	≥40	≥50	≥60	≥70
强度(%) INTENSITY	≥97	≥96	≥96	≥96	≥96
水分(%) MOISTURE	<5	<5	<5	<5	<5
灰分(%) ASH	≤12	≤12	≤12	≤12	≤12
装填密度(%) LOADING DENSITY	500-550	500-550	450-550	450-550	400-450

三、选择理由 REASON FOR SELECTION

1、应用的主要特点是设备投资省,价格廉,吸附速度快,对短期及突发性水质污染适应能力强。

2、对去除色度有明显效果。色度的去除有报道可达70%,色度低表明去除有机物的效率高,除铁、锰的效果好。

3、对去除臭味有明显效果。

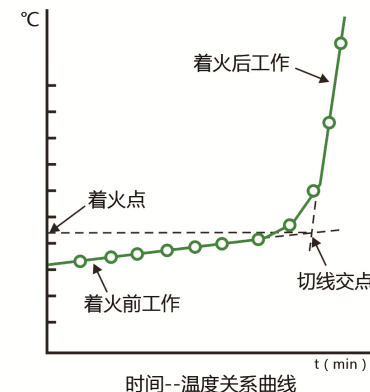
4、有助于去除阴离子洗涤剂。

1. THE MAIN CHARACTERISTICS OF THE APPLICATION ARE LOW EQUIPMENT INVESTMENT, LOW PRICE, FAST ADSORPTION SPEED, AND STRONG ADAPTABILITY TO SHORT-TERM AND SUDDEN WATER POLLUTION.

2. IT HAS A SIGNIFICANT EFFECT ON REMOVING CHROMATICITY. THE REMOVAL OF CHROMATICITY HAS BEEN REPORTED TO REACH 70%, AND LOW CHROMATICITY INDICATES HIGH EFFICIENCY IN REMOVING ORGANIC MATTER, AS WELL AS GOOD REMOVAL OF IRON AND MANGANESE.

3. IT HAS A SIGNIFICANT EFFECT ON REMOVING ODORS.

4. HELPS REMOVE ANIONIC DETERGENTS.



粉状活性炭

Powdered activated carbon

粉末活性炭 (椰壳、煤制、木制)

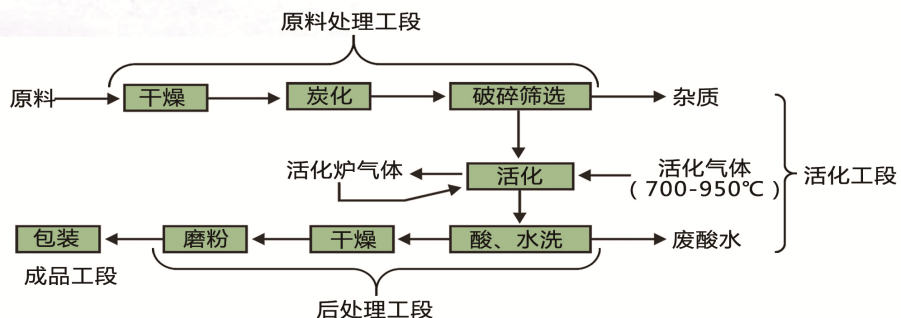
POWDERED ACTIVATED CARBON (COCONUT SHELL, COAL, WOOD)



一、产品特点 PRODUCT FEATURES

主要用于烟气、水净化系统，脱除烟气水中有毒有害物质，特别是重金属、苯类、CTC、VOCs等污染物。

IT IS MAINLY USED IN FLUE GAS AND WATER PURIFICATION SYSTEM TO REMOVE TOXIC AND HARMFUL SUBSTANCES IN FLUE GAS AND WATER, ESPECIALLY HEAVY METALS (ESPECIALLY HG), DIOXINS (PCDDs), FURANS (PCDFs) AND OTHER POLLUTANTS



物理法生产粉状活性炭工艺流程

二、产品参数 PRODUCT PARAMETERS

注：可按用户特殊要求供货

NOTE: IT CAN BE SUPPLIED ACCORDING TO THE SPECIAL REQUIREMENTS OF USERS

指标 INDEX	水分 WATER CONTENT	强度 STRENGTH	碘值 IODINE VALUE	细度 (97%通过) FINENESS (90% PASS)	堆积重 STACKING WEIGHT
型号 MODEL	%	%	mg/g	size	g/L
AQD-30	≤5.0	95	≥800	200-325	310-360
AQD-30-BX	≤5.0	95	≥900	200-325	≤440
ALD-30K	≤5.0	95	≥700	200-325	370-400
1000M(30S)SP	≤5.0	95	≥1000	200-325	240-400

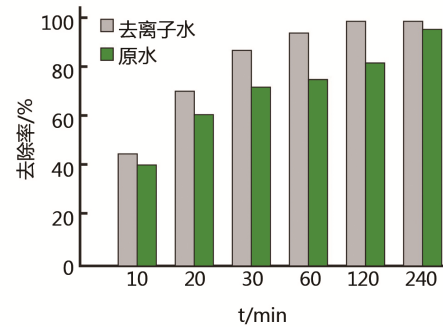
三、粉状活性炭的应用 APPLICATION OF POWDERED ACTIVATED CARBON

1、饮料行业：采用木质粉状活性炭，主要是对可乐、果汁等有色饮料的净化处理。

2、自来水厂：利用木质粉状活性炭的特性，具有吸附过滤效果，达到自来水排放标准。

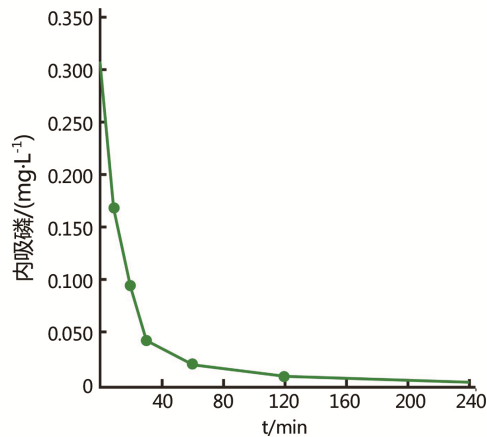
3、污水排放：使用煤质活性炭，吸附沉淀水中的杂质，符合污水排放标准。

4、废物燃烧：对我们生活中的垃圾燃烧加入煤质粉状活性炭，可以吸附气体中的杂质，达到气体排放标准。

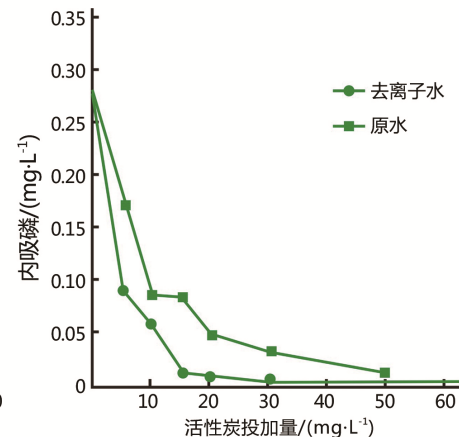


水质条件对吸附效果的影响

1. BEVERAGE INDUSTRY: WOOD POWDER ACTIVATED CARBON IS USED TO PURIFY COLORED BEVERAGES SUCH AS COLA AND FRUIT JUICE.
2. WATERWORKS: UTILIZING THE CHARACTERISTICS OF WOODEN POWDERED ACTIVATED CARBON, IT HAS ADSORPTION AND FILTRATION EFFECTS, MEETING THE DISCHARGE STANDARDS OF TAP WATER.
3. SEWAGE DISCHARGE: USING COAL BASED ACTIVATED CARBON TO ADSORB IMPURITIES FROM SEDIMENT WATER, MEETING SEWAGE DISCHARGE STANDARDS.
4. WASTE COMBUSTION: ADDING COAL POWDER ACTIVATED CARBON TO THE WASTE COMBUSTION IN OUR DAILY LIVES CAN ADSORB IMPURITIES IN THE GAS AND MEET GAS EMISSION STANDARDS.



吸附速率曲线



活性炭投加量对吸附效果的影响

