



3774, Hoover Road, Blasdell, NY 14219. Tel: (716) 821 7830. Fax (716) 821 0790.

City Of Ann Arbor
C/o Customer Service
301 East Huron Street
Ann Arbor Mi 48104

January 16, 2023

REF:- RFP No 23-01 Carbon Replacement in Odor Control Vessels.

Dear Sir,

Please find enclosed our completed bid document for the above RFP.

WE acknowledge receipt of the 2 addendums issued.

We trust the enclosed information is satisfactory and please contact us for any additional information

Sincerely,

A handwritten signature in dark ink, appearing to read "Christopher Allen", is written over the printed name.

Christopher Allen
Director NY.



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www.activatedcarbon.com

ODOR CONTROL REFERENCES

- 1
Massachusetts Water Resources Authority
Nut Island, Deer Island
Boston, MA
Contract -> \$1 M
Contact - Lisa Bina - Tel- 617 305 5768
- 2
South Essex Sewer Authority
50 Fort Avenue
Salem, MA
Contract - \$480000
Contact - Richard Delacono - Tel; 978 744 4550
- 3
Atlantic County Utility Authority
6700 Delilah Rd
Pleasantville, NJ
Contract - \$150000
Contact - Ms. H Bryant - Tel - 609 272 6914
- 4
Fairfax County
Norman Cole WWTP
Lorton, VA
Contract - \$480000
Contact - Mr. A. Gerges - Tel 703 550 9740- ext. 311
- 5
Ocean County Utilities Authority
501 Hickory Lane
Bayville, NJ
Contract - \$400000

Contact - Ms. C. Carty - Tel 732 269 4500 - ext. 8229



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COMPANY INFORMATION

SECTION A.

1 Carbon activated corporation (CAC) is a California registered private corporation based at 250 East Manville street, Compton, CA. The company has been established for 26 years and has service and production facilities Located in Washington, Arizona, Texas, West Virginia and New York.

The New York facility, located at 3774 Hoover Road , Blasdell would be the service center for this project And has previously provided carbon supply and exchange services for the WWTP in Ann Arbor and has a current contract with the Water Treatment Plant in Ann Arbor for carbon exchange and reactivation services. The company is registered in Michigan for business.

2. CAC has grown significantly over the 26 years and is the largest privately owned activated carbon company in the USA, employing 140 personnel within its 6 operating facilities.

The company is manufacturer and supplier of activated carbon, reactivated carbon and provides dedicated on- site services employing its own service technicians and utilizing its own equipment. Sub - contractors are not required to complete this project.

CAC is a major supplier of specialist activated carbons to control odors in the municipal wastewater treatment Market and has service contracts with major municipalities providing activated carbon, carbon disposal, carbon recycling and carbon replacement services. For this project we consider our company has the following benefits-

- a Major supplier of activated carbons and specialist high-capacity products for Odor control
- b Provide our own fully trained and experienced service technicians- OSHA certified.
- c Provide our own Titan vacuum system and supply vehicle.
- d Nationwide experience of similar operating systems and specific experience at Ann Arbor.
- e In house logistics team experienced in working with the service team and client.
- f Provide carbon disposal or carbon recycling services with full documentation.

3. The key personnel who would carryout the project are –

a John Allen -internal project manager – Responsible for overseeing the project ensuring the correct carbon is supplied, service team briefed on the project, disposal contracts are in place, the service team and equipment are timely mobilized, and all freight arranged with Client and the team.

Resume attached

b Mark Schmidt – On site supervisor – responsible for establishing work zone, health and safety review, implementing work program and controlling documentation – Manifests – Service reports- H&S reports.

Resume attached

c Mark would be supported by 3 additional experienced service technicians -Jonathan Rodriguez and David Viau Mark McLaughlin, The team would work together to complete the carbon replacement work. The 4-man onsite service team are all OSHA certified and have specific confined space training and have 5 years or more experience. in carbon replacement projects including the references provided. We attach the training matrix.

SECTION B.

Carbon activated Corporation are a major supplier and service provider to this industry and in addition to previous Work at this location in Ann Arbor we have multi-year contracts with major municipalities providing similar products and services. These include Fairfax County in Virginia, Massachusetts Water Resource Authority. We enclose a Reference list with Customer name, contact information and project value. These references are projects where we have provided odor control activated carbons and services over several years. Additional references can be provided.

SECTION C

CAC will provide the complete supply of high capacity activated carbon and services for this project.

The project manager (PM) will contact the appointed representative at Ann Arbor to confirm we have the materials And are ready to schedule the work. A site visit will be made to review the site and collect a sample of spent carbon for analysis.

The project manager will discuss the project with our site supervisor and service technicians to confirm the service date, what equipment will be required including PPE, safety issues and how we envision the project being implemented.

The PM will confirm the start and anticipated finish dates for the work with the representative and a provide a schedule for the execution of the work, including delivery and collection times of materials. He will discuss any specific requirements the Town may have regarding the proposed schedule. Specific requirements will be taken into account and implemented- (e.g. Vehicle parking, working hours, storage, access to building , H&S).

Documentation will be verified that meets the Town and environmental regulations – This would be Bills of lading for carbon supply, disposal manifests, Certificate of Analysis and service reports.

A final confirmation email will be sent detailing the agreed schedule and work plan.

On arrival at the site the service team will meet the representative to walk through the facility and confirm the work plan.

First Day

A work zone area and product storage area will be established. A tail gate meeting will be held with the team. Health and Safety checks and report will be completed. Safety equipment will be specified and worn.

A forklift will be delivered for use in collecting the spent carbon and loading unloading materials.

New carbon will be delivered and supplied in 50 lb. bags. This will be unloaded and placed in the storage area. The Titan vacuum will be set up in the work zone area and hoses run up the side of building onto the 3rd floor through an access point / window opening to avoid the stairwell.

The team will access the vessels via the access deck to remove the covers from the vessels . Safety harness and PPE Equipment will be worn

The spent carbon will be removed carefully from the vessels under vacuum. The carbon will be drawn into a 1000 lb. hopper located on the rear of the Titan vacuum. This will be discharged at regular intervals into a 1000 lb. super sac located beneath the hopper. When full, the super sac is removed with forklift and placed in staging area awaiting collection and disposal.

All carbon will be removed form the 3 vessels in the first day. The screens will be inspected to verify they are still in serviceable condition. Screen repair can be provided if necessary. This would require vessel entry.

Carbon will be taken to the 3 rd. floor using the floor lift. The forklift or pallet jack will be used and the pallets of carbon placed in readiness for vessel filling.

Second Day

The 4 man team will manually lift the 50 lb. bags of carbon from the pallets to the access ports and carefully pour the material into the vessels to reach the specified depth/ fill point adhering to H&S protocols.

Third Day

Filling operations will be completed.

The access tops will be replaced and the units placed back in service.

Spent carbon will be collected for disposal.

De mobilization and site cleanup will be completed.

Service reports will be completed and presented to the representative with BOL for the carbon, COA for the carbon and Disposal manifest.

Section D

Pricing submitted in a separate envelope as requested.

Section E.

Chris Allen will be the nominated negotiator.

Email callen@actiavtedcarbon.com

Tel 716 821 7830

Section F

Supplemental forms attached.



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John Allen – Project Manager- Resume

Graduate chemical engineer

16 years' experience within the activated carbon market.

-3 years production experience of reactivated carbon

1 year working in carbon testing laboratory -ASTM test methods

2 years' experience of field application of activated carbons in water, air, and gas phase purification

4 years technical sales experience

6 Years project management – Proposals and project management.

Specifying activated carbon and filtration media products for liquid and air systems

Experienced in single, multi-media and dual media filtration systems –

Removal and replacement methods and commissioning work in accordance with AWWA procedures

Field Trials – water, air, and gas purification trials with pilot equipment

Filter vessel inspections – Pressure and gravity type contactors and vapor phase adsorbers

Experienced in media volume calculation, placement, leveling and chemical sterilization of Filter systems

Material recycling and disposal- analytical and disposal documentation

Project implementation ,management and completion responsibilities

Projects included Fairfax County (\$450000.) Massachusetts Water Resources Authority (\$1.5M-)

CARBON ACTIVTED CORPOATION.



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Key Personnel for this project and relevant experience-

Mark Schmidt – Service team supervisor- 8 years carbon replacement experience

CDL Driver Class A Driver

Certified operator -Counter Balance /rough terrain forklift

OSHA 10 hr. Certified

OSHA confined space, Fall protection ,Loto.

First aid -CPR

8 years' experience in filter media replacement projects

4 years supervisory role, responsible for site operations, safety, and compliance with project requirements.

Experienced in activated carbon and filtration media exchange procedures utilizing vacuum, water eduction and pneumatic bulk trailer systems – (exchange from GAC contactors -10K and 20K pressure vessels)

Experienced in multimedia and dual media removal and replacement work and commissioning in accordance with AWWA procedures.

Experienced in carbon and screen replacement / repair for single and dual bed vapor systems.

Experienced in volume calculation, placement, leveling and chemical sterilization of Filter systems.

Responsible for site organization, operations and safety review /procedures including confined space

Documentation - confirmation of deliveries, disposal, safety documentation, filter inspection and work completion forms-

Recent projects include – Last 3 months -2022

Town of Cary – NC- removed / replaced 100000 lbs. vapor carbon in 2 horizontal adsorber systems.

Monroe County -NY- removed / replaced 800000 lbs. of dual media form 4 gravity filters

Atlantic County -NJ- removed / replaced 2 x 5000 lbs. carbon odor control vessels.

CARBON ACTIVTED CORPOATION.

ADDENDUM No. 1

RFP No. 23-01

Carbon Replacement in Odor Control Units

Proposals Due: January 18, 2023 by 2:00 P.M. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. This Addendum includes one (1) page.

The Proposer is to acknowledge receipt of this Addendum No. 1, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment C – City of Ann Arbor Non-Discrimination Declaration of Compliance
- Attachment D - City of Ann Arbor Living Wage Declaration of Compliance
- Attachment E - Vendor Conflict of Interest Disclosure Form of the RFP Document

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the RFP documents which are outlined below are referenced to a page or Section in which they appear conspicuously. Offerors are to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
Page 8	As provided in O. Schedule - RFP No. 23-01 Document: Proposal Due Date: January 2, 2023, 2:00 p.m. (Local Time) As updated herein: Proposal Due Date: January 18, 2023 by 2:00 p.m. (Local Time) <i>Comment: The intent with this change is simply to correct the typographical error on the Proposal Due Date that was provided on Page 8 of the RFP Document.</i>

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

ADDENDUM No. 2

RFP No. 23-01

Carbon Replacement in Odor Control Units

Due: January 18, 2023 by 2:00 p.m. (local time)

The information contained herein shall take precedence over the original documents and all previous addenda (if any) and is appended thereto. This Addendum includes two (2) pages.

The Offeror is to acknowledge receipt of this Addendum No. 2, including all attachments in its Proposal by so indicating in the proposal that the addendum has been received. Proposals submitted without acknowledgement of receipt of this addendum may be considered non-conforming.

The following forms provided within the RFP Document should be included in submitted proposal:

- Attachment C – City of Ann Arbor Non-Discrimination Declaration of Compliance
- Attachment D - City of Ann Arbor Living Wage Declaration of Compliance
- Attachment E - Vendor Conflict of Interest Disclosure Form of the RFP Document

Proposals that fail to provide these completed forms listed above upon proposal opening may be rejected as non-responsive and may not be considered for award.

I. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the RFP. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: What is the height of the street to the top of the handrail on the access deck?

Answer 1: The height from the street level to the top of the hand rail is approximately 34Ft. for further reference the top of the concrete on the holding tank deck is 31ft.

Question 2: Are contractors able to utilize the service elevator to move the carbon sacks to the 3rd floor?

Answer 2: Yes, however in Section II-Scope of Service, 1. Removal and Disposal states "Use if City equipment other than the elevator is strictly prohibited. The elevator has a capacity of 10,000 lbs. and shall be protected with blankets to prevent any damage"

Question 3: Is the overhead crane on the 3rd floor able to be used by contractors to hoist Carbon sacks for filling carbon vessels?

Answer 3: No, Section II-Scope of Service, 1. Removal and Disposal states "Use if City equipment other than the elevator is strictly prohibited."

Question 4: Please confirm the due date is the 18th of January 2023 by 2:00pm per discussion on 12:21.22 at the pre bid meeting.

Answer 4: Yes, see confirmation of the due date and time herein along with RFP 23-01 Addendum #1.

Offerors are responsible for any conclusions that they may draw from the information contained in the Addendum.

SECTION IV - ATTACHMENTS

Attachment A – SDS COC PA HS3 Carbon

Attachment B - Legal Status of Offeror

Attachment C – Non-Discrimination Ordinance Declaration of Compliance Form

Attachment D – Living Wage Declaration of Compliance Form

Attachment E – Vendor Conflict of Interest Disclosure Form

Attachment F – Non-Discrimination Ordinance Poster

Attachment G – Living Wage Ordinance Poster

ATTACHMENT A
SDS COC PA HS3 CARBON

MATERIAL SAFETY DATA SHEET



SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Steam Processed Coconut Shell Activated Pellet Carbon with Magnesium Oxide.
HS CODE* : 3802.10
MANUFACTURE CODE : Activated carbon
PROPER SHIPPING NAME : COC-PA60HS3
COMPANY IDENTIFICATION : Carbon Activated Corporation 3774 Hoover Rd Blasdell NY 14219
CONTACT DETAILS : TEL 7168217830 FAX 7168210790
VERSION : I

(HS CODE* - Harmonized System Code)

This product is distributed by
 Canada Colors and Chemicals Limited
 General Inquiry: (905) 459-1232
 24 Hour Emergency: (416) 444-2112



CCC Product Code: **113506**
ACTIVATED CARBON COC-PA60 HS3
 CCC Product Name:

SECTION 2 : HAZARDS IDENTIFICATION

OSHA REGULATORY STATUS : None

HMIS* RATINGS

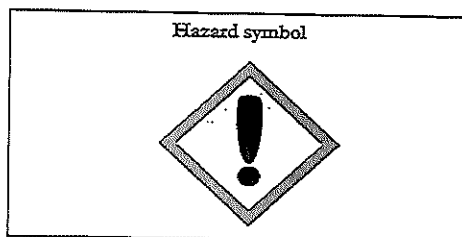
	Activated Carbon	Magnesium Oxide
Health	0	1
Flammability	1	0
Reactivity	0	0
Special		

4 = Extreme/Severe
 3 = High/Serious
 2 = Moderate
 1 = Slight
 0 = Minimum
 W = Water reactive
 OX = Oxidizer

HEALTH EFFECT : See section (4)

ENVIRONMENTAL EFFECT : See section (7)

GHS* CLASSIFICATION :



Hazard symbol

Hazard/Category

Eye Irritation Category 2B

Respiratory Irritation Category 3

Warning

Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory tract.

Wet activated carbon removes oxygen from air causing a severe hazard to workers in enclosed or confined space.

(HMIS* - Hazardous Material Information System, GHS* - Globally Harmonized System)

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Common name	Chemical Identity (% by weight)	CAS No	Impurities
Activated carbon (Steam processed coconut shell based)	75% - 100%	7440-44-0	None
Magnesium Oxide	up to 25%	1309-48-4	None

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MATERIAL SAFETY DATA SHEET



SECTION 4

: FIRST AID MEASURES

ROUTES OF ENTRY

- Inhalation : Dust may be inhaled and may cause mild irritation to the upper respiratory tract.
- Ingestion : Dust may cause mild irritation to digestive track resulting in nausea or diarrhea.
- Skin Contact : Dust may cause mild irritation.
- Eye Contact : Dust may cause mild irritation.

EFFECTS OF EXPOSURE

- : Inhalation of carbon dust may cause temporary discomfort. No adverse effects expected through skin or eye contact, but may cause mild irritation. Workers should also take appropriate precautions when dealing with spent (used) activated carbons which may exhibit properties of absorbed materials.

EMERGENCY AND FIRST AID

- Inhalation : Expose to fresh air. Get medical attention for any breathing difficulty.
- Ingestion : Give water to drink to dilute. If large quantities were swallowed, get medical attention immediately.
- Skin Contact : Wash exposed area with soap and water. Seek medical attention if irritation develops.
- Eye Contact : Immediately flush eyes with gentle but large stream of water for at least 15 min lifting lower and upper eye lids occasionally. Call a physician if irritation persists.

HEALTH HAZARD ACUTE AND CHRONIC

- : No data available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

- : People with pre-existing skin conditions, eye problems or impaired respiratory function may be more susceptible to the potential effects of the dust.

SECTION 5

: FIRE FIGHTING MEASURES

Steam activated Carbon
Magnesium Oxide

FLASH POINT

NA

AUTO IGNITION TEMPERATURE

Above 350 °C

But not available for mixture

NA

FLAMMABLE LIMIT - LEL
- UEL

- : Not applicable (Lower Explosive Limit)
- : Not applicable (Upper Explosive Limit)

EXTINGUISHING MEDIA

- : Water, carbon dioxide, nitrogen, dry chemical extinguishing agents, sand and foam. Avoid methods which may stir up dust clouds.

UNSUITABLE EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURE

Not known

- : Wet carbons adsorb oxygen, do not enter closed vessels without using a self-contained breathing apparatus. Magnesium Oxide may ignite and explode when heated with sublimed sulfur, Mg powder or Al powder. It reacts violently with interhalogens and produces fumes.

PROTECTIVE EQUIPMENT

- : In the event of fire, wear full protective clothing and NIOSH approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Wet carbons adsorb oxygen, therefore do not enter closed vessels without using a self-contained breathing apparatus.

SECTION 6

: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

- : Use an extinguishing media suitable for the surrounding fire.
- Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8. Use non-sparking tools and equipment. Reduce airborne dust to prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

ENVIRONMENTAL PRECAUTIONS

- : Carbon is not soluble, but can cause a particulate emission if discharged to waterways.
- Spills: Clean up spills in a manner that does not disperse dust into the air.

Warning! Spent carbon may have adsorbed hazardous materials.

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MATERIAL SAFETY DATA SHEET



SECTION 7 : HANDLING & STORAGE

SAFE HANDLING

Minimize spills, generation of airborne dust and accumulation of dust on exposed surfaces. Adequate exhaust ventilation to be used to draw dust from working environment.
Use appropriate respirators, gloves and eye protection to prevent or minimize exposures to dust.

CONDITIONS FOR SAFE STORAGE

Store in cool, dry, ventilated place and in closed container. Keep away from oxidizers, heat or flames. Store away from ignition sources.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne Exposure Guidelines:

OSHA PEL (Occupational Safety and Health Association - Permissible exposure Limit):
ACGIH TLV (American Conference of Governmental Industrial Hygienists - Threshold Limit Value):

<u>Activated Carbon</u>	<u>Magnesium Oxide</u>
Data not available	TWA = 10(mg/m ³)
Data not available	TWA = 10(mg/m ³)

Exposure Guidelines

Keep in airtight packing to prevent pickup of odors and moisture from air. Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in confined spaces.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH* Approved):

For conditions of use where exposure to the dust or mist is apparent, Use NIOSH/OSHA* approved respirator for Phosphonic acid and dust/mist (non-toxic particles). Select the suitable respirator based on exposure limits. For emergencies or instances where the exposure levels are not known, use a full-face positive pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing. For personal hygiene purposes, use adequate clothing to prevent skin contact including boots, gloves, lab coat, apron or overalls as appropriate.

Eye Protection:

Use safety glasses/goggles when working with activated carbon. Contact lenses should not be worn. Install eyewash fountain and quick-drench facilities in work area.

(NIOSH* - National Institute for Occupational Safety and Health/ OSHA* - Occupational Safety and Health Association)

SECTION 9 : PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOUR	: Black granules or powder, odorless.
pH VALUE	: 6 - 11
MOLECULAR WEIGHT	: Not applicable
BOILING POINT	: Not applicable
VAPOUR PRESSURE	: Not applicable
SOLUBILITY IN WATER	: Insoluble for Carbon, only Magnesium Oxide will be dissolved. (6.2mg/l (200C)
PARTICLE DENSITY	: Nominal 0.82 g/cc
BULK DENSITY	: 0.30 - 0.64 g/cc
MELTING POINT	: Not applicable
FREEZING POINT	: Not applicable
EVAPORATION RATE	: Not applicable
FLASH POINT	: Not applicable
PARTITION COEFFICIENT	: Not applicable
DECOMPOSITION TEMP.	: Not applicable for Carbon and Magnesium Oxide
VISCOSITY	: Not applicable

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MATERIAL SAFETY DATA SHEET



SECTION 10 : STABILITY AND REACTIVITY

CHEMICAL STABILITY

: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID

: Moisture and incompatibles (See below)

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing chemicals such as ozone, liquid oxygen, chlorine, permanganate, chlorates, bromates, nitrates, etc. may result rapid combustion. Avoid contact with strong acids.

HAZARDOUS DECOMPOSITION PRODUCT/BY-PRODUCT

: On burning carbon dioxide, carbon monoxide / Magnesium oxides.

HAZARDOUS POLYMERIZATION

: Will not occur

SECTION 11 : TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

Toxicity Studies

Oral LD50*	Not determined on the finished product
Dermal LD50*	Not determined on the finished product

Inhalation

Section (4)

Ingestion

Section (4)

Eye Irritation

Section (4)

Skin Irritation

Section (4)

Sensitization

Not determined on the finished product

Target organ(s) or System

Eyes, skin and upper respiratory system

Signs and Symptoms of Exposure

Irritation and redness of eyes, irritation of skin and respiratory system may result from exposure to carbon dust.

Chronic Effects

Carcinogenicity

Not determined on the finished product.

Mutagenicity

Not determined on the finished product.

Reproductive effects

Not determined on the finished product.

Development factors

Not determined on the finished product.

(LD50* - Lethal Dose expected to kill 50% of a group of test animals)

SECTION 12 : ECOLOGICAL INFORMATION

Eco toxicity

Not determined on the finished product.

Persistence/degradability

Not determined on the finished product.

Bioaccumulation/Accumulation

Not determined on the finished product.

Mobility in Environmental Media

Not determined on the finished product.

Other adverse effects

Not determined on the finished product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Approved waste disposal facilities should be used for material that cannot be recycled/regenerated appropriately. Processing, use or contamination of this product may change the waste management options. Country, Federal, State, City and local disposal regulations may differ from each other. Consider potential hazards of any adsorbed material before disposal.

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MATERIAL SAFETY DATA SHEET



SECTION 14

: TRANSPORT INFORMATION

Proper Shipping Name:
Activated carbon (Not DOT* regulated)

Identification Number:
Not applicable for finish product

Packing Group
NOT REGULATED
FOR MIXTURE

UN NO*
1362 for Carbon

IMCO* CLASS
4.2 for Carbon

Note: Activated carbon passes the test for self-heating substances as reflected in the United Nations Recommendations on the Transport of dangerous Goods, manual of Tests and Criteria (see 33.3.1.3.3) and is not considered spontaneously combustible. Therefore, the provisions for shipping activated carbon, class 4.2, in the IATA*, ICAO*, and IMDG* Code publications do not apply to shipments of this material.

(DOT* - Department of Transportation, UN NO* - United Nations Hazardous substance No, IMCO* - Intergovernmental Maritime Consultative Organization, IATA* - International Air Transportation Association, ICAO* - International Civil Aviation Organization, IMDG* - International Maritime Dangerous Goods)

SECTION 15

: REGULATORY INFORMATION

SARA* Title III, Section 302:

Activated carbon

Magnesium Oxide

SARA* Title III, Section 313:

Does not contain any chemicals under this section.

OSHA*

Does not contain any chemicals under this section.

TSCA*:

Activated carbon is listed on the TSCA inventory list.

California proposition 65:

Activated carbon and magnesium Oxide is listed on the TSCA inventory list.

Does not contain any chemicals currently in the California
List of known carcinogens and reproductive toxins.

Magnesium Oxide listed

U.S. Federal Regulations:

OSHA* (29 CFR 1910.1200) - Air contaminant, Table Z-1-A CERCLA*

(40 CFR 302.4) - Contains no CERCLA hazardous substance RCRA*

For Activated Carbon

(40 CFR 261.33, 261.20-24) - Listed hazardous waste: No.

Chemical inventory status

Japan

Australia

Korea

CANADA

Phil.

No

Yes

Yes

DSL*
Yes

WHMIS*
Yes

Yes

* This is given only for activated carbon, information not available for finished product.

(SARA* - Superfund Amendments and reauthorization Act, TSCA* - Toxic Substances Control Act, OSHA* - Occupational Safety and Health Association, CERCLA* - Comprehensive Environmental Response, Compensation and Liability Act, RCRA* - Resource Conservation and Recovery Act, DSL* - Domestic Substances List, WHMIS* - Workplace Hazardous Material Information System)

SECTION 16

: OTHER INFORMATION

Do not enter vessels containing wet Activated Carbon before checking oxygen level. Vessels with limited ventilation may be low in oxygen due to the adsorbing characteristics of Activated Carbon. If necessary, use a NIOSH-approved self-contained breathing apparatus.

Dangerous goods regulation-

Steam activated carbon (HS CODE 3802.10) is not classified as dangerous good as per UN No 1362, IMCO Class or division 4.2, Packing group III, Special provisions 925

Special Provision 925 - The provisions of this Code do not apply to:

- carbons made by a steam activation process.
- a consignment of carbon if it passes the tests for self-heating substances as reflected in the UN Manual of Tests and Criteria (see 33.3.1.3.3), and is accompanied by a certificate from a laboratory accredited by the competent authority, stating that the product to be loaded has been correctly sampled by trained staff from that laboratory and that the sample was correctly tested and has passed the test

EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND SHOULD MAKE INDEPENDENT JUDGMENT OF SUITABILITY OF THIS INFORMATION TO ENSURE PROPER USE AND PROTECT THE HEALTH AND SAFETY OF EMPLOYEES. THIS INFORMATION IS FURNISHED WITHOUT WARRANTY AND ANY USE OF THE PRODUCT NOT IN CONFORMANCE WITH THIS MATERIAL SAFETY DATA SHEET OR IN COMBINATION WITH ANY OTHER PRODUCT OR PROCESS, IS THE RESPONSIBILITY OF THE USER.

Last Revised date: January 2015

* THIS MSDS IS VALID UNTIL THE NEXT VERSION.

-oOo-

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PHONE: 7168217830, E-MAIL: nyinfo@activatedcarbon.com, FAX: 7168210790

**ATTACHMENT B
LEGAL STATUS OF OFFEROR**

(The Respondent shall fill out the provision and strike out the remaining ones.)

The Respondent is:

- A corporation organized and doing business under the laws of the state of CALIFORNIA, for whom CAUSION ALLEN bearing the office title of Director, whose signature is affixed to this proposal, is authorized to execute contracts on behalf of respondent.*

*If not incorporated in Michigan, please attach the corporation's Certificate of Authority

- A limited liability company doing business under the laws of the State of _____, whom _____ bearing the title of _____, whose signature is affixed to this proposal, is authorized to execute contract on behalf of the LLC.
- A partnership organized under the laws of the State of _____ and filed with the County of _____, whose members are (attach list including street and mailing address for each.)
- An individual, whose signature with address, is affixed to this RFP.

Respondent has examined the basic requirements of this RFP and its scope of services, including all Addendum (if applicable) and hereby agrees to offer the services as specified in the RFP.

 Date: 6/15/23
Signature

(Print) Name CAUSION ALLEN Title Director

Firm: CAUSION ACTIVATION CONSULTING

Address: 374 HOOPER ROAD BLANCKLEY NY 14219

Contact Phone 716 821 7830 Fax 716 821 0790

Email causionactivated@causion.com

ATTACHMENT C
CITY OF ANN ARBOR DECLARATION OF COMPLIANCE

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

CARDEN ACTIVATED CORPORATION
Company Name

[Signature] 01/15/23
Signature of Authorized Representative Date

CHRISTOPHER ALLEN - DIRECTOR
Print Name and Title

3716 Hoover Road BLASWELL NY 14219
Address, City, State, Zip

716 821 7830 CARDENACTIVATED.COM
Phone/Email address

Questions about the Notice or the City Administrative Policy, Please contact:
Procurement Office of the City of Ann Arbor
(734) 794-6500

Revised 3/31/15 Rev. 0

NDO-2

**ATTACHMENT D
CITY OF ANN ARBOR
LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE**

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here ☐ No. of employees _____

The Contractor or Grantee agrees:

- (a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$14.82/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$16.52/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

Check the applicable box below which applies to your workforce

- ☐ Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits
- ☒ Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.
- (e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

Carbon Activated Carbon
Company Name

Deborah Allen 01/15/23
Signature of Authorized Representative Date

Carston Allen
Print Name and Title

3774 Hoover Road
Street Address

Blasdel, NY 14219
City, State, Zip

716 821 7830 - carbon@activatedcarbon.com
Phone/Email address



ATTACHMENT E

VENDOR CONFLICT OF INTEREST DISCLOSURE FORM

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
5. Please note any exceptions below:

Conflict of Interest Disclosure*	
Name of City of Ann Arbor employees, elected officials or immediate family members with whom there may be a potential conflict of interest.	<input type="checkbox"/> Relationship to employee
	<input type="checkbox"/> Interest in vendor's company
	<input type="checkbox"/> Other (please describe in box below)
None	

*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:		
CAUTION ACTIVATION CONSULTING	716 821 7830	
Vendor Name	Vendor Phone Number	
	01/15/23	CARISTOTIA ALLEN
Signature of Vendor Authorized Representative	Date	Printed Name of Vendor Authorized Representative

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, procurement@a2gov.org

**ATTACHMENT F
CITY OF ANN ARBOR NON-DISCRIMINATION ORDINANCE**

Relevant provisions of Chapter 112, Nondiscrimination, of the Ann Arbor City Code are included below. You can review the entire ordinance at www.a2gov.org/humanrights.

Intent: It is the intent of the city that no individual be denied equal protection of the laws; nor shall any individual be denied the enjoyment of his or her civil or political rights or be discriminated against because of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight.

Discriminatory Employment Practices: No person shall discriminate in the hire, employment, compensation, work classifications, conditions or terms, promotion or demotion, or termination of employment of any individual. No person shall discriminate in limiting membership, conditions of membership or termination of membership in any labor union or apprenticeship program.

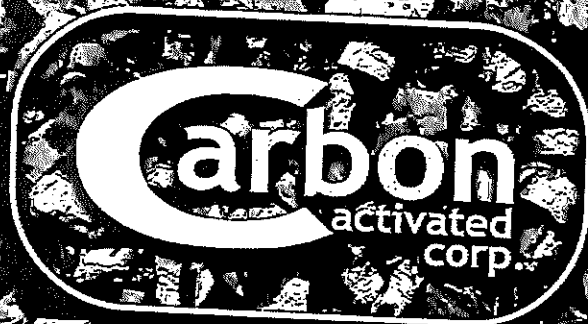
Discriminatory Effects: No person shall adopt, enforce or employ any policy or requirement which has the effect of creating unequal opportunities according to actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight for an individual to obtain housing, employment or public accommodation, except for a bona fide business necessity. Such a necessity does not arise due to a mere inconvenience or because of suspected objection to such a person by neighbors, customers or other persons.

Nondiscrimination by City Contractors: All contractors proposing to do business with the City of Ann Arbor shall satisfy the contract compliance administrative policy adopted by the City Administrator in accordance with the guidelines of this section. All city contractors shall ensure that applicants are employed and that employees are treated during employment in a manner which provides equal employment opportunity and tends to eliminate inequality based upon any classification protected by this chapter. All contractors shall agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of any applicable protected classification. All contractors shall be required to post a copy of Ann Arbor's Non-Discrimination Ordinance at all work locations where its employees provide services under a contract with the city.

Complaint Procedure: If any individual believes there has been a violation of this chapter, he/she may file a complaint with the City's Human Rights Commission. The complaint must be filed within 180 calendar days from the date of the individual's knowledge of the allegedly discriminatory action or 180 calendar days from the date when the individual should have known of the allegedly discriminatory action. A complaint that is not filed within this timeframe cannot be considered by the Human Rights Commission. To file a complaint, first complete the complaint form, which is available at www.a2gov.org/humanrights. Then submit it to the Human Rights Commission by e-mail (hrc@a2gov.org), by mail (Ann Arbor Human Rights Commission, PO Box 8647, Ann Arbor, MI 48107), or in person (City Clerk's Office). For further information, please call the commission at 734-794-6141 or e-mail the commission at hrc@a2gov.org.

Private Actions For Damages or Injunctive Relief: To the extent allowed by law, an individual who is the victim of discriminatory action in violation of this chapter may bring a civil action for appropriate injunctive relief or damages or both against the person(s) who acted in violation of this chapter.

**THIS IS AN OFFICIAL GOVERNMENT NOTICE AND
MUST BE DISPLAYED WHERE EMPLOYEES CAN READILY SEE IT.**



GROUND WATER

MUNICIPAL WATER

LANDFILL GAS

POWER PLANT

GOLD MINING

MUNICIPAL WATER

ACTIVATED CARBON & RELATED SERVICES

www.activatedcarbon.com

Carbon Activated Corp. is one of the leaders in the global activated carbon industry providing top quality carbon to the air, water quality and numerous other industries.

ABOUT US

Carbon Activated Corp. (CAC) is a global leader in supplying high-quality activated carbon and related services. We are one of the forerunners in providing various types of activated carbon and filter media, carrying NSF-61 certification and manufacturing to A.W.W.A. Standards.

Our specialties and fields of expertise include:

- Manufacturing and supplying coal, coconut shell, and wood base activated carbon in granular, extruded, and powdered forms
- Offering special grades and sizes of activated carbon for numerous unique applications
- Various impregnated types of carbon
- Activated carbon related services including slurry tanker change outs and vacuum removal / replacement
- Spent carbon regeneration services
- Onsite media testing laboratory services
- Technical support

CAC commenced operations in 1993 as a distributor of bulk activated carbon to OEM's and other carbon companies.

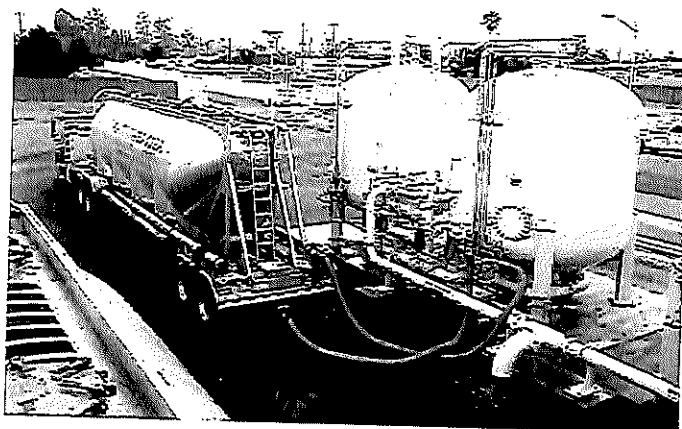
Throughout the years, CAC has shown tremendous growth, amassing over 50 years of collective experience and adding options such as turnkey change out services, rental and sale of adsorption and filtration systems, and the supply of various types of filter media and equipment.

Our strategy since inception has been to market and sell our products globally. We strive to provide the most

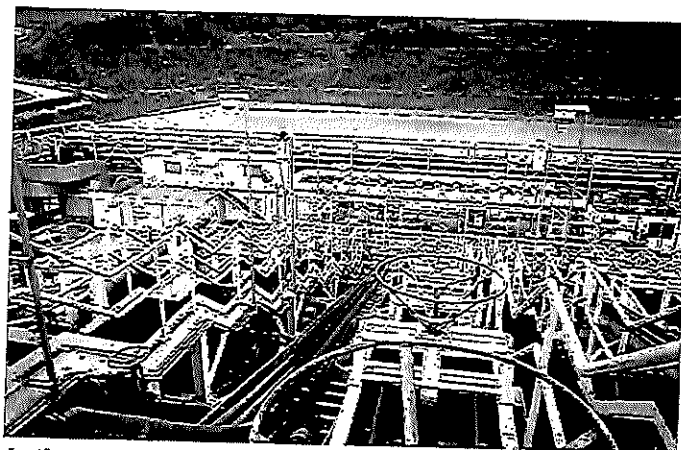
efficient service in our industry, supplying high quality products at cost effective prices in the least amount of time.

CAC is currently ISO 9001:2008 certified. All of the company's procedures, from material handling, to service change outs, to the reactivation process and office administration are directed by ISO regulations.

SERVICE



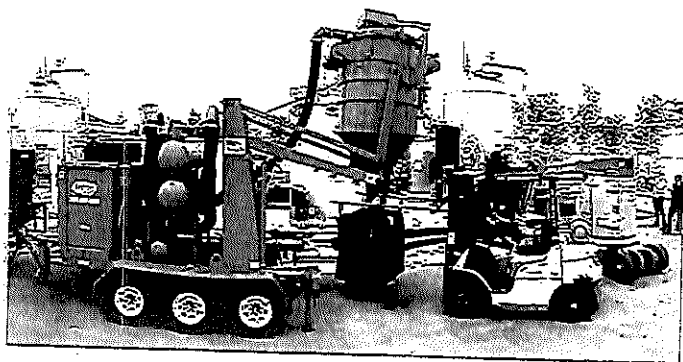
CAC owns slurry trailers for potable water change out services. The trailers are only used for non-hazardous drinking water and potable water services.



Activated carbon for gold mining industry.

Carbon Activated Corp. takes pride in supplying high quality activated carbon and various types of filter media. We offer turnkey media removal, replacement services, and supply filtration systems to meet any type of application. We strive hard to provide clients with the most cost effective solution to all their filter media applications.

CAC uses custom designed & built vacuum-loaders when conducting spent carbon change out services at vapor phase carbon plants. Vacuum loaders are transported to your site via trailer. The use of high-powered vacuum machines creates higher suction. This significantly reduces on-site change out time, as compared to typical carbon PTO blowers installed on other carbon service trucks. Reduced downtime allows your process to go back on-line faster.



OUR LABORATORY

CAC operates a test laboratory capable of measuring carbon specifications for quality control purposes. The laboratory is staffed by employees with over 27-years of experience in manufacturing of carbon.



PRODUCTS

Activated carbon products are available in the following ASTM mesh sizes. Special particle sizes are available.

4x6 4.76mm x 3.36mm	8x30 2.38mm x 0.60mm	50x200 0.30mm x 0.074mm
4x8 4.76mm x 2.38mm	12x20 1.68mm x 0.34mm	80x325 0.13mm x 0.044mm
4x10 4.76mm x 2mm	12x30 1.68mm x 0.60mm	-325 ≤ 0.04mm
6x10 3.36mm x 2mm	12x40 1.68mm x 0.42mm	1.50 mm Diameter Pallets
6x12 3.36mm x 1.68mm	20x50 0.84mm x 0.30mm	2.00 mm Diameter Pallets
6x16 3.36mm x 1.19mm	30x60 0.30mm x 0.25mm	3.00 mm Diameter Pallets
8x16 2.38mm x 1.19mm	40x80 0.42mm x 0.13mm	4.00 mm Diameter Pallets
8x20 2.38mm x 0.34mm	50x150 0.30mm x 0.13mm	9.00 mm Diameter Pallets



MEMBER



American Water Works Association

Dedicated to the World's Most Important Resource™

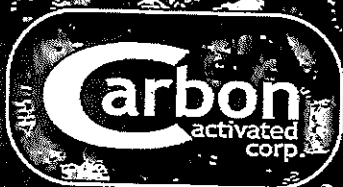


Quality
ISO 9001

SAIGLOBAL



Corporate Office
2250 S Central Avenue
Compton, California 90220
Tel 310 885 4555
Fax 310 885 4558
info@activatedcarbon.com



East Coast Office

3774 Hoover Road
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Fax + 44 1554 546548
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Point Cook, VIC 3030
Australia
Tel + 61 434 02152
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Sri Lanka Branch

Colombo
info-srilanka@activatedcarbon.com

China Branch

Tianjin Development Zone
info-china@activatedcarbon.com



ACTIVATED CARBON
& SERVICES

DATASHEET

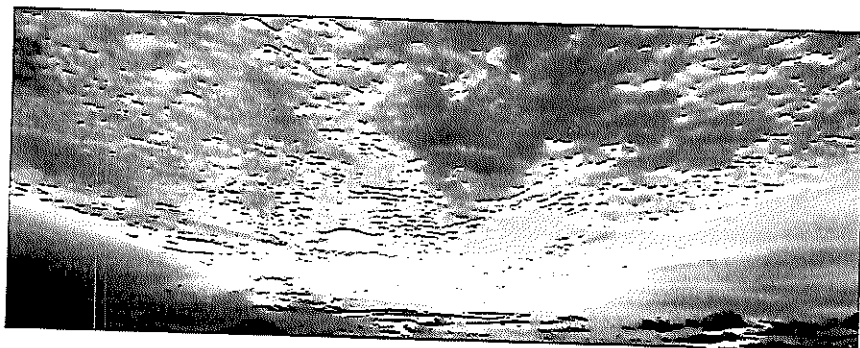
COL-PA60 HS3 (4.00 mm)

PELLETIZED ACTIVATED CARBON FOR H₂S ADSORPTION

COL-PA60 HS3 is a pelletized activated carbon used in air and gas phase applications. It is manufactured utilizing a propriety activation process that yields a unique pore structure providing a very high hydrogen sulfide adsorption and broad spectrum activity. COL-PA60 HS3 is used in many odor control applications to remove sulfur compounds, acidic gases, and a wide range of VOCs including indole and Skatole. The product is a hard, durable pellet that provides a low pressure drop. Applications include the treatment of odorous gases from waste water treatment, chemical processing, manufacturing, and paper production.

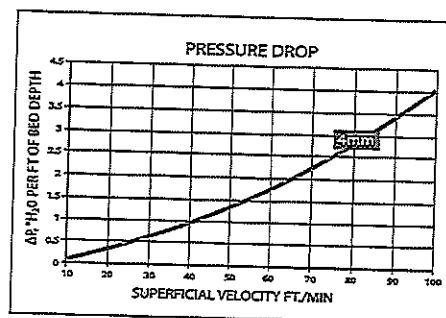


SPECIFICATIONS	COL-PA60 HS3	TEST METHOD
H ₂ S Capacity, min.	0.30 g/cc	ASTM D6646-03
CTC Value, min.	60 %	ASTM D3467-04
Apparent Density	0.48 - 0.52 g/cc	ASTM 2854-96
Hardness, min.	98 %	ASTM D3802-10
Moisture as packed, max.	2 %	ASTM D2867-09
Particle Size	4.00 mm	ASTM D2862-10



APPLICATIONS

Used for removal of Hydrogen Sulfide (H₂S), Mercaptans, general acid gases and other type of odors from treating waste water, sewage wastes and chemical plants.



STANDARD PACKAGING

- 55 lb or 27.5 lb polylined polypropylene bags
- 200 lb fiber drums
- 1100 lb supersacks

This information is offered solely for your consideration and verification. It has been gathered from reference materials and/or test procedures and is believed to be true and accurate. None of this information shall be constituting a warranty or representation, expressed or implied, for which we assume legal responsibility or that the information or goods described is fit for any particular use either alone or in combination with other goods or processes.

