

GENERAL TECHNOLOGIES, SPC

Phone: 816-590-9641/Fax: 253-663-9333

Web: <http://gtspc.com/activatedcarbon/>

Impregnated Carbons

SPECIALLY TREATED CARBONS FOR VAPOR PHASE APPLICATIONS

Different grades of impregnated activated carbon for those special applications where either standard non-treated carbon does not work or where activated carbon's adsorptive capacity can be greatly enhanced through impregnation.

<u>Product</u>	<u>Application</u>
KZ Series:	The desulphurisation of gases and the removal of all acidic contaminants such as hydrogen sulfide, hydrogen chloride and mercaptans.
KZ 15-4C:	The removal of ammonia.
Other K Series:	The removal of radioactive methyl iodide from nuclear fission products. The removal of radiation in nuclear testing.

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DK-30C

PELLETIZED ACTIVATED CARBON

DK-30 is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its high activity and surface area make it ideal for most vapor phase applications. The uniformity of its shape makes it particularly attractive in applications where low pressure drop is a consideration.

Specifications

Particle Size - (Diameter), mm:	3.0
(Length), mm:	4.5
Mean Particle Diameter, mm:	3.75
CCl ₄ Activity, %:	60(min)
Iodine No., mg/g:	1000(min)
Surface Area, m ² /g:	1000(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	3(max)
Typical Density, lbs./cu.ft.:	28-32
g/cc:	0.44-0.50

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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ZK-40A

PELLETIZED ACTIVATED CARBON

ZK-40A is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its superior activity and surface area make it ideal for most vapor phase applications. The uniformity of its shape makes it particularly attractive in applications where low pressure drop is a consideration.

Specifications:

Particle Size - (Diameter),mm:	4.0
(Length), mm:	6.0
Mean Particle Diameter, mm:	4.7
CCl ₄ Activity, %:	70(min)
Iodine No., mg/g:	1050(min)
Surface Area, m ² /g:	1050(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	3(max)
Typical Density, lbs./cu.ft.:	28-31
g/cc:	0.44-0.50

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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ZK-40B

PELLETIZED ACTIVATED CARBON

ZK-40B is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its superior activity and surface area make it ideal for most vapor phase applications. The uniformity of its shape makes it particularly attractive in applications where low pressure drop is a consideration.

Specifications:

Particle Size - (Diameter),mm:	4.0
(Length), mm:	6.0
Mean Particle Diameter, mm:	4.7
CCl ₄ Activity, %:	65(min)
Iodine No., mg/g:	1030(min)
Surface Area, m ² /g:	1030(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	3(max)
Typical Density, lbs./cu.ft.:	28-31
g/cc:	0.44-0.50

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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ZK-40C

PELLETIZED ACTIVATED CARBON

ZK-40C is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its high activity and surface area make it ideal for most vapor phase applications. Its size and the uniformity of its shape make it particularly attractive in applications where low pressure drop is a consideration.

Specifications:

Particle Size - (Diameter),mm:	4.0
(Length), mm:	6.0
Mean Particle Diameter, mm:	4.7
CCl ₄ Activity, %:	60(min)
Iodine No., mg/g:	1000(min)
Surface Area, m ² /g:	1000(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	3(max)
Typical Density, lbs./cu.ft.:	28-32
g/cc:	0.44-0.52

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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ZK-40C(KOH or KI)

PELLETIZED ACTIVATED CARBON - IMPREGNATED WITH KOH OR KI

ZK-40C(KOH OR KI) is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its high activity and surface area make it ideal for most vapor phase applications. Its size and the uniformity of its shape make it particularly attractive in applications where low pressure drop is a consideration. The palletized carbon is treated with either KOH or KI solution to impregnate the carbon with the respective chemical agent, which acts as a functional group on the base carbon to greatly enhance the product's ability to remove certain air-borne contaminants such as hydrogen sulfide. This product is widely used in odor removal applications.

Specifications:

Particle Size - (Diameter),mm:	4.0
(Length), mm:	6.0
Mean Particle Diameter, mm:	4.7
CCl ₄ Activity, %:	60(min)
Surface Area, m ² /g:	1000(min)
Hardness, %:	95(min)
Ash Content, % (excl. KI or KOH)	14(max)
Moisture, % (as packaged, KI impregnated):	5(max)
Moisture, % (as packaged, KOH impregnated):	15(max)
KI Content (KI impregnated), %:	2(min)
KOH Content (KOH impregnated), %	5(min)
Typical Density, lbs./cu.ft.:	28-32
g/cc:	0.44-0.52

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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ZK-40D

Pelletized Activated Carbon

ZK-40D is a virgin activated carbon. Derived from bituminous coal, it is pelletized in form. Its size and the uniformity of its shape make it particularly attractive in applications where low pressure drop is a consideration.

Specifications:

Particle Size - (Diameter),mm:	4.0
(Length), mm:	6.0
Mean Particle Diameter, mm:	4.7
CCl ₄ Activity, %:	50(min)
Iodine No., mg/g:	800(min)
Surface Area, m ² /g:	800(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	5.0(max)
Typical Density, lbs./cu.ft.:	24-28
g/cc:	0.38-0.44

*Standard packaging is in 200 lb. fiber drums. Other packaging is available upon request

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PK-4x6B

GRANULAR ACTIVATED CARBON

PK-4x6B is a virgin activated carbon. Derived from bituminous coal, it is granular in form. Its high activity and surface area make it ideal for most vapor phase applications including general odor removal and the absorption of organic contaminants from vapor streams.

Specifications:

Mesh size - 4x 6, %:	90(min)
Less than No. 4, %:	5(max)
Greater than No. 6, %:	5(max)
Mean Particle Diameter, mm:	3.6(min)
CCl ₄ Activity, %:	60(min)
Iodine No., mg/g:	1000(min)
Surface Area, m ² /g:	1050(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	5(max)
Typical Density, lbs./cu.ft.:	27-30
g/cc:	0.43-0.48

*Standard packaging is in 55 lb. vinyl. Other packaging is available upon request.

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PK-4x6D

GRANULAR ACTIVATED CARBON

PK-4x6D is a virgin activated carbon. Derived from bituminous coal, it is granular in form. A general purpose carbon, it is appealing where low pressure drop is needed.

Specifications:

Mesh size - 4x 6, %:	90(min)
Less than No. 4, %:	5(min)
Greater than No. 6, %:	5(max)
Mean Particle Diameter, mm:	3.6(min)
CCl ₄ Activity, %:	50(min)
Iodine No., mg/g:	800(min)
Surface Area, m ² /g:	800(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	5(max)
Typical Density, lbs./cu.ft.:	25-28
g/cc:	0.40-0.45

*Standard packaging is in 200 lb. fiber drums. Other packaging is available upon request.

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PK-4x8B & PK-4x10B

GRANULAR ACTIVATED CARBON

PK-4x8B and PK-4x10B are virgin activated carbons. Derived from bituminous coal, they are granular in form. Their high activity and surface area makes them ideal for most vapor phase applications including general odor removal and the absorption of organic contaminants from vapor streams.

<u>Specifications:</u>	<u>4x8B</u>	<u>4x10B</u>
Mesh size - 4x8, %:	90(min)	-----
Less than No. 4, %:	5(max)	-----
Greater than No. 8, %:	5(max)	-----
Mesh Size - 4x10, %:	-----	90(min)
Less than No. 4, %:	-----	5(max)
Greater than No. 10, %:	-----	5(max)
CCl ₄ Activity, %:	60(min)	60(min)
Iodine No., mg/g:	1000(min)	1000(min)
Surface Area, m ² /g:	1000(min)	1000(min)
Hardness, %:	95(min)	95(min)
Moisture, % (as packaged):	3(max)	3(max)
Typical Density, lbs./cu.ft.:	27-30	27-30
g/cc:	0.43-0.48	0.43-0.48

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request.

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PK-6x12

GRANULAR ACTIVATED CARBON

PK-6x12 is a virgin activated carbon. Derived from bituminous coal, it is granular in form. Its high activity and surface area make it ideal for most vapor phase applications including general odor removal and the adsorption of organic contaminants from vapor streams.

Specifications:

Mesh size - 6x12, %:	90(min)
Less than No. 6, %:	5(max)
Greater than No. 12, %:	5(max)
CCl ₄ Activity, %:	60(min)
Iodine No., mg/g:	1000(min)
Surface Area, m ² /g:	1000(min)
Hardness, %:	95(min)
Moisture, % (as packaged):	3(max)
Typical Density, lbs./cu.ft.:	27-30
g/cc:	0.43-0.48

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request

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PK SERIES COCONUT SHELL

GRANULAR ACTIVATED CARBON

PK-4x8C and **6x12C** granular activated carbons are ideal for most air purification purposes. Made from selected grades of coconut shell, their superior level of hardness makes them cleaner than most other carbons and gives them longer life expectancy. This, combined with their high activity level, makes them well suited for use in any kind of carbon filter or system. Aside from general air purification and deodorization, our coconut shell carbons are also very effective in solvent recovery applications.

Specifications:

<u>US Standard Series Sieve Size:</u>	<u>4x8S</u>	<u>6x12S</u>
4x8, %:	90(min)	-----
Less than No. 4, %:	5(max)	-----
Greater than No. 8, %:	5(max)	-----
6x12, %:	-----	90(min)
Less than No. 6, %:	-----	5(max)
Greater than No. 12, %:	-----	5(max)
CCl ₄ Activity, %:	60(min)	60(min)
Iodine No., mg/g:	1200(min)	1200(min)
Hardness No., %:	98(min)	98(min)
Ash Content, %:	4(avg)	4(avg)
Moisture, % (as packaged):	5(avg)	5(avg)
Typical Density, lbs./cu.ft.:	29-32	29-32
g/cc:	0.47-0.50	0.47-0.50

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request

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PK-4x8CAW

ACID WASHED COCONUT SHELL

GRANULAR ACTIVATED CARBON

PK-4x8CAW granular activated carbon is ideal for most air purification purposes. Made from selected grades of coconut shell, its superior level of hardness makes it cleaner than most other carbons and gives it longer life expectancy. This, combined with its high activity level, makes it well suited for use in any kind of carbon filter or system. Acid washed, our SA series carbons are ideal for applications requiring the typical advantages of coconut shell activated carbon in conjunction with the high purity and neutral pH characteristics of an acid washed product.

Specifications:

Mesh Size - 4x8, %:	90 (min)
Less than No. 4, %:	5 (max)
Greater than No. 8, %:	5 (max)
CCl ₄ Activity, %:	60(min)
Iodine No., mg/g:	1200(min)
Hardness No., %:	98(min)
Ash Content, %:	1.5(min)
Moisture, % (as packaged):	5(avg)
Typical Density, lbs./cu.ft.:	29-32
g/cc:	0.47-0.50
pH:	6 -8

*Standard packaging is in 55 lb. vinyl bags. Other packaging is available upon request