

Clean Air, Activated Carbon Solutions

SINGLE MEDIAS

CKV 1	1 mm	Extruded coal based non-impregnated activated carbon in cylindrical pellets	Organic gases, Hydrocarbons, Solvents, VOCs: Styrene, Toluene, Xylene, Ozone, NO ₂ , and many others
CKV 2	2 mm		
CKV 3	3 mm		
CKV 4	4 mm		
CKG-4X8	2,4 - 4,8mm	Granular bituminous based activated carbon	Siloxanes, Organic gases, Hydrocarbons, Solvents, VOC's, Chlorine, Ozone, odour
CKG-COCOS		Granular coconut shell based activated carbon	Small VOC's
CKG-SUPERLITEW		Granular wood based activated carbon	Organic Gases, Hydrocarbons, Solvents, VOCs, Odour
CKV-SULFREE HE	3 mm (other diameters on demand)	Impregnated coal based extruded activated carbon in cylindrical pellets. Each carbon is impregnated with a different substance to remove specific target gases	Acid gases like H ₂ S, SO ₂ , with low O ₂ levels. Also used for radioactive gases and Methyl Iodide
CKV-ACID FREE HE			Acid gases and strong sulphur based odours like H ₂ S, SO ₂ , Thiols, HCl, Acetic Acid, Formic Acid
CKV-ALKALI FREE HE			Alkaline Fumes, Amines, Fish odours
CKV-FORMASORB			3 mm
CKV-HG	3 mm		Mercury removal
CKO-PURPLE 8%	3 mm	All-round polishing media based on Aluminium oxide impregnated with KMnO ₄	Organic acids, Nitrogen dioxide, H ₂ S, HCN, Mercaptans, Organic acids, Oxidising gases, SO ₂ , Formaldehyde, NO _x

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MEDIA BLENDS

CKV-KIKOH HE	3 mm	Blend of Sulfree HE and Acid Free HE activated carbon	Combination of H ₂ S + other Acids, Various other odours
CKV-ABEK	3 mm (other diameters on demand)	Blend of carbon with acid, base and special impregnates to remove a broad range of harmful gases	Gas masks, Fume hoods, Organophosphates
CKB-5050 O8-V3	3 mm	Blend of CKO Purple 8% and activated carbon in different proportions	Used as polishing filter against a broad range of gases like: Hydrocarbons, VOC's, Oxides of sulphur, Formaldehyde, Nitric oxide, Hydrogen sulphide, lower molecular weight aldehydes and organic acids
CKB-2575 O8-V3			
CKT 5025-AF-V3-O8	±3 mm	Triple blend of ACID Free HE, CKO Purple 8% and CKV-3	Can be used for a broad range of acid gases instead of a multi-pass media system
CKB 9010-AF-O8		Special Blend of CKO Purple and CKV-Acid Free HE	Jet & Diesel Exhaust

Refer to individual data sheets for more technical specifications

*Standard 3mm, other sizes on demand



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ACTIVATED CARBON CKV-1 / CKV-2

CKV-1 and CKV-2, are 1 or 2mm steam activated pelletized coal based activated carbon. These pellet sizes are not used in our standard cylinders, but are mainly intended for smaller filter cassettes. A smaller pellet ensures faster adsorption but also a higher differential pressure.

- Available in big bags, in 25 kg bags and in special cassettes.

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Target gases

Hydrocarbons, solvents, VOCs, chlorine, ozone, nitrogen dioxide

Active carbon diameter of

1 - 2 mm

Impregnation

None

Iodine number

890 - 1029

Specific density

460 ±30 kg/m³

Ash content

12% max.

Moisture content

5% max.

CTC

60%

Hardness

95% min.

The specifications mentioned are based on average values.

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ACTIVATED CARBON CKV-3

CKV-3 is a 3 mm steam-activated pelletized activated carbon based on coal.

- It has a good mix of micro- and meso-pores, making it ideal for a wide range of gases.
- This activated carbon is especially used in the smaller cylinders.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases

Hydrocarbons, solvents, VOCs, chlorine, ozone, nitrogen dioxide

Active carbon diameter of

3 mm

Impregnation

None

Iodine number

1000

Specific density

480 ±30 kg/m³

Ash content

12% max.

Moisture content

5% max.

CTC

60%

Hardness

95%

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ACTIVATED CARBON CKV-4

CKV-4 is a 4 mm steam-activated pelletized activated carbon based on coal.

- It has a good mix of micro- and meso-pores, making it ideal for a wide range of gases.
- Tests have shown that this carbon has a good capacity for benzene.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases

Hydrocarbons, solvents, VOCs, chlorine, ozone, nitrogen dioxide

Active carbon diameter of

4 mm

Impregnation

None

Iodine number

850

Specific density

500 ±30 kg/m³

Ash content

12% max.

Moisture content

5% max.

CTC

50%

Hardness

95%

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ACTIVATED CARBON CKG-4x8

CKG-4x8 is a steam activated granulate virgin activated carbon. This activated carbon is made from specially selected bituminous carbon and a good mix of larger and smaller pores.

- Granular pellet form provides a slightly higher pressure difference, but this is offset by faster adsorption.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases

Organic gases, hydrocarbons, solvents, VOCs, chlorine, ozone and odour.

Active carbon diameter of

Granulate Mesh 4x8 (4,8 - 2,4 mm)

Impregnation

None

Iodine number

900

Specific density

510 ± 30 kg/m³

Ash content

15% max.

Moisture content

5% max.

CTC

50%

Hardness

95%

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ACTIVATED CARBON CKG-COCOS

CKG-COCOS - Granular Coconut Shell is a high activity granular activated carbon manufactured by high temperature steam activation from selected grades of coconut shell.

The well developed microporous structure of CKG-COCOS - Granular Coconut Shell gives it a significant advantage when adsorbing lower molecular weight organic molecules particularly under low concentration conditions.

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Target gases

Odour & VOC control, industrial air filtration, solvent recovery, catalyst support, cooking odour, smoking rooms, HVAC system.

Active carbon diameter of

4x8 Mesh or 4.8-2,4 mm

Impregnation

None

Iodine number

1050mg/g

Specific density

450 kg/m³

Ash content

4%

Moister content

5%

CTC

50%

Hardness

98%

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ACTIVATED CARBON CKG-SUPER LITE WOOD

CKG-Super Lite Wood is a steam activated granulate virgin activated carbon. This activated carbon is made from wood, a renewable raw material. This makes it a more sustainable alternative to traditional activated carbon.

- Characteristic are the low density and high adsorption capacity.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases

Organic gases, hydrocarbons, solvents, VOCs, chlorine, ozone and odour

Active carbon diameter of

Granulate Mesh 4x8 (4,8 - 2,4 mm)

Impregnation

None

Iodine number

900

Specific density

270 ±30 kg/m³

Ash content

4% max.

Moisture content

5% max.

CTC

52%

Hardness

90%

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ACTIVATED CARBON CKV-SULFREE HE

CKV-Acid Free HE is a high quality impregnated activated carbon based on an extruded cylindrical pellet. Due to this impregnation, this coal can be used for catalytic conversion of hydrogen sulfide and other organic sulfur compounds. This can also be done in a low-oxygen gas stream, which makes this coal particularly suitable for cleaning biogas.

- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases	H ₂ S, biogas
Active carbon diameter of	3 mm
Impregnation	4%
Iodine number	1000
Specific density	545 ±30 kg/m ³
Moisture content	10% max.
CTC	60%
Temperature range	-21°C - 51°C
Relative Humidity range	10% - 95%

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ACTIVATED CARBON CKV-ACID FREE HE

CKV-Acid Free HE is a high quality alkaline-impregnated activated carbon based on an extruded cylindrical pellet. Due to this impregnation, this carbon has a high capacity to capture sulfur dioxide, hydrogen chloride, hydrogen sulphide and other acid gases.

In industry, this carbon is often used for corrosion control on electronics and compressors or for odour control.

- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases	Acid gases, HCl, H ₂ SO ₄ , SO ₂ , Cl ₂ , NO, HF
Active carbon diameter of	3 - 4 mm
Impregnation	10%
Iodine number	1000
Specific density	630 ± 30 kg/m ³
Moisture content	12%
CTC	50% - 60%
Temperature range	-21°C up to 51°C
Relative Humidity range	10% - 95%

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ACTIVATED CARBON CKV-AKALI FREE HE

CKV-Alkali Free HE is a high quality acid-impregnated activated carbon based on extruded cylindrical pellets. This impregnation makes this carbon suitable for capturing ammonia gas, various amines and other basic gases. It also captures fish odours. It is widely used in chemical processes where ammonia is released, such as fertilizer production, but also in other processes. Ammonia is not only a poisonous gas, but also corrosive to electronics and compressors.

Clean Air, Activated Carbon Solutions



Target gases	Alkaline fumes, ammonia, amines, fish odours.
Active carbon diameter of	3 - 4 mm
Impregnation	10%
Iodine number	950
Specific density	580 ± 30 kg/m ³
Moisture content	10%
CTC	50% - 60%
Temperature range	-21°C - 51°C
Relative Humidity range	10% - 95%

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ACTIVATED CARBON CKV-FORMASORB

CKV-FORMASORB, is an impregnated activated carbon which is specifically suitable for the removal of formaldehyde and a number of other aldehydes.

- Available in big bags, in 25 kg bags and in all our cylinders.

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Target gases	Formaldehyde (HCHO) and other aldehydes
Active carbon diameter of	3 - 4 mm
Impregnation	Urea phosphate
Iodine number	950
Specific density	650 ±30 kg/m ³
Ash content	8% max.
Moisture content	12% max.
CTC	50% - 60%
Hardness	90%

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ACTIVATED CARBON CKV-HG

CKV- HG (Mercury) is a high quality impregnated activated carbon based on extruded cylindrical pellets.

- This impregnation makes it possible to use this carbon for removing mercury and amalgam.
- Good capacities are achieved due to an extra high impregnation level.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases	Mercury (Hg) and amalgam
Active carbon diameter of Impregnation	3 mm
Iodine number	10%
Specific density	850
Ash content	550 ±30 kg/m ³
Moisture content	12% max.
CTC	5% max.
	60%

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OXIDANT MEDIUM CKO-PURPLE 8%

CKO-Purple 8% has been developed for the removal of a broad range of acid gases. These are common in for example outside air, in buildings, in industry and in exhaust gases of cars. The gases are removed by means of the chemisorption process in which the gases react with the potassium permanganate and are converted into harmless salts that are stored in the pellet. This process is irreversible, which means the gases cannot return to the air stream.

Clean Air, Activated Carbon Solutions



Pellet size	Ca. 3 mm (1/8")
Impregnation	Min. 8% Potassium Permanganate (KMnO ₄)
Specific density	800 ± 40 kg/m ³
Moisture content	20% max.
Temperature range	-20°C up to 51°C
Relative humidity range	10% - 95%
Crush strength	2 kg minimum
Compliance with UL classification	Class 1
Hydrogen sulfide (H₂S)	14%
Sulphur dioxide (SO₂)	7%
Nitrogen oxide (NO)	5%
Nitrogen dioxide	10%
Formaldehyde (HCHO)	2,5%
Other gases	Aldehydes and many organic compounds

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ACTIVATED CARBON CKV-KIKOH HE

CKV-KIKOH HE is a mix of two impregnated activated carbons based on steam activated pelletized coal. It combines the advantages of both types of activated carbon in one mix. Blend of Sulfree HE and Acid-Free HE activated carbon.

- This mix is suitable for removing hydrogen sulphide and other acid gases from the air.
- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases

Combination H₂S with other acids and various other odours

Active carbon diameter of

3 mm

Impregnation

Mix of KI and KOH

Iodine number

1000

Specific density

580 ±30 kg/m³

Ash content

11% max.

Moisture content

14% max.

CTC

60%

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ACTIVATED CARBON CKV-ABEK

CKV-ABEK is a mix of different impregnated activated carbons based on extruded steam-activated coal ranging from 1 to 4 mm. It is intended to capture a very broad spectrum of inorganic & organic gases and vapors, acid gases and vapors, ammonia and organic ammonia derivatives. It is particularly suitable in situations where it is not exactly known what kind of chemical substances are present in the air.

- Available in big bags, in 25 kg bags and in all our cylinders.

Clean Air, Activated Carbon Solutions



Target gases	Gas masks, fume hoods, organophosphates
Active carbon diameter of	3 mm or on demand
Impregnation	Various impregnants
Iodine number	850
Specific density	530 ±30 kg/m ³
Ash content	8% max.
Moisture content	12% max.
CTC	50% - 60%

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OXIDANT MEDIA MIX CKB

At CF Industrial we can mix two or more filter media or types of activated carbon to combine the specific properties of these filter media. We have a number of standard media mixes, but we can also make a customer specific mix.

Typical mixes are:

- CKB-2575 O8-V3 & CKB-2575 O8-V3 (mix of CKO-Purple and activated carbon).
- CKB-9010 AF-O8 (diesel / kerosene mix).
- CKT-5025 AF-V3-O8 (triple blend).

Clean Air, Activated Carbon Solutions



Target gases

Pellet size

Impregnation

Specific density

Temperature range

Relative humidity range

Each mix has its specific field of application

Ca. 3 - 4 mm

Almost all variations are possible

500 - 800 kg/m³

-20°C - 51°

10% - 95%

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