

Sorbotech® LG 85

Sorbotech® LG 85 is a granular carbon manufactured from selected, high quality grades of coal. It is specially designed for drinking water treatment, eliminating substances having an influence on its colour, taste and smell. Additionally, it is a perfect medium for wastewater and process water filtration, removing organic impurities to a trace level.

SPECIFICATION

Iodine number	min. 850 mg/g
Granulation*	8x30 mesh (0,6 – 2,36 mm)
Moisture content	max. 5 %
Bulk density	approx. 500 kg/m ³
Hardness	min. 92 %
Ash content	max. 15 %

*Other granulations on demand

STORAGE

Activated carbon should be stored in sealed, unopened packages in dry place with temperature 5 – 40° C, away from sources of ignition and solvent vapours. Exposure to direct sunlight and moisture should be limited.

SAFETY

Wet activated carbon adsorbs oxygen from the air, what causes danger while working inside containers with activated carbon in closed or poorly ventilated places.

Under certain conditions, during contact with oxidizing agents and some organic compounds such as ketones (e.g. acetone), acrylates, esters, volatile acids, amines etc. activated carbon may react exothermally. In case of rapid temperature increase cooling with water is recommended.



Signed by /
Podpisano przez:

Agata Weronika Lis

Date / Data: 2026-
07-30 15:15



Typical applications

- Water purification
- Wastewater treatment
- Pool water filtration
- Production solutions filtration

Packaging

- 20 kg bags
- 500/550 kg big bags



ISO2015:9001

ACES Sp. z o.o.
ul. Legionów 69
81-413 Gdynia
tel. 58 622 63 50
aces@aces.pl

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
<u>Sorbotech LG, GG</u>		
Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 1/8

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Sorbotech LG, GG

Product name: Activated carbon

Chemical name: Carbon [CAS: 7440-44-0; EC: 931-328-0]

Registration number: 01-2119488894-16-0042

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Used as a filter material.

Uses advised against: Not determined.

1.3. Details of the supplier of the safety data sheet

Supplier: ACES Sp. z o. o.

Address: Poland; PL 81-537 Gdynia; Łużycka 10

Telephone/Fax: +48 58 622 63 50 / +48 58 623 30 17

E-mail address of the person responsible for the SDS: reach@aces.pl

1.4. Emergency telephone number

112 (emergency call), 998 (fire brigade), 999 (ambulance)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Hazards to man: Does not meet the criteria of classification.

Hazards to environment: Does not meet the criteria of classification as dangerous for the environment.

Hazard from physical and chemical properties: Does not meet the criteria of classification.

2.2. Label elements

Label accordance with Regulation 1272/2008/EC (CLP)

Hazard pictograms, signal words: None.

Hazard statements: None.

Precautionary statements: None.

The names of hazardous ingredients on the label: None.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

May form explosible dust-air mixture if dispersed.

Depending on kind of proceeding and usage (e.g. grinding, transport), in the air can arise "mineral dust". In this case applied material should be treated as dangerous substance.

Wet activated carbon absorbs oxygen from air, which may pose a risk to people working inside tanks with an activated carbon and confined or enclosed spaces without ventilation. Before entering into these places, observe the rules of work in areas with low oxygen,

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
Sorbotech LG, GG		
Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 2/8

ensure a relatively efficient ventilation or use self-contained respirators with an independent air circulation.
 Contact with strong oxidizing e.g. ozone, liquid oxygen, chloride, permanganate, etc., may cause ignition.

The product does not contain ingredients entered in the list established in accordance with Art. 59 paragraph 1 as having endocrine disrupting properties or components with endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance name:	Activated carbon
Concentration [%]:	90
CAS Number:	7440-44-0
EC Number:	931-328-0
Index Number:	-
Classification 1272/2008/EC:	-

The product does not contain impurities and additives classified as hazardous in accordance to Regulation 1272/2008/EC.

3.2. Mixtures

Not applicable.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move the affected person to fresh air and keep rested. Seek medical advice if necessary.

Skin contact: Take off contaminated clothing. Wash contaminated skin with water with soap. Seek medical advice if necessary.

Eye contact: Remove contact lenses, if easy to do. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 15 minutes. Seek medical advice if necessary.

Ingestion: Rinse mouth and give plenty of water to drink. Seek medical advice if necessary.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation: Dust may cause respiratory tract irritation.

Skin contact: May cause skin irritation.

Eye contact: In high concentration product cause serious conjunctivitis and inflammation of the cornea of the eye.

Ingestion: May cause mucous membranes of mouth and throat irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Remove affected person from the environment contaminated by the product. In the event of health problems, consult your doctor or the center of toxicological concern. Provide the information contained in the SDS. If unconscious, do not give anything by mouth.

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
Sorbotech LG, GG		
Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 3/8

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam, dry chemicals, carbon dioxide (CO₂), water spray.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture

Heated to a temperature above 600 °C decomposes to carbon monoxide (CO) and carbon dioxide (CO₂). During combustion irritation and hazardous products may be formed, e.g.: carbon oxide. Avoid inhalation of combustion products, because they may pose a health risk. Wet activated carbon absorb oxygen from air, thus is possibility of dangerously a low oxygen levels.

5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Wet activated carbon absorb oxygen from air, thus is possibility of dangerously a low oxygen levels. Protect drains, surface waters and soil from pollution.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Access of non-emergency personnel to the area of accident should be restricted until the completion of the disposal of the product. Wear appropriate personal protective equipment. Avoid dust formation.

For emergency responders: Wear appropriate personal protective equipment. Prevent formation and inhalation of dust. Provide adequate ventilation.

6.2. Environmental precautions

Secure the gullies. Prevent contamination of surface water and ground. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services. Used containers should be disposed by delivering to eligible organizations.

6.3. Methods and material for containment and cleaning up

Secure the damaged packaging. Collect mechanical and dilute with plenty of water. Collected product put in a substitute container and direct to the destruction. Provide well-ventilation in contaminated area.

6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink, smoke or take drugs at work. Wash your hands before break and after working with the product. Wear appropriate personal protective equipment. Take off contaminated clothing and wash it before reuse. Provide adequate ventilation, general and local, during working with the product. Do not pulverize on a naked flame or incandescent material. Keep away from ignition sources – no smoking. Install filters in a ventilation system, before released into an atmosphere.

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Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 4/8

7.2. Conditions for safe storage, including any incompatibilities

Keep in properly labeled, factory sealed containers, with a label which complies with current regulations. Store in a dry magazine. Storage temperature must not exceed 80 °C. Limit exposure to air and moisture to protect against decay. Restrict access to storage areas for wet activated carbon. In areas where it is stored wet activated carbon is recommended to control the level of oxygen. Bulk storage should take place in specially designed silos. Keep out of reach of children. Avoid contact with strong acids and strong oxidizing agents.

7.3. Specific end use(s)

Used as a filter material.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substance name	TWA	STEL	BLV
Dust	10 mg/m ³ (inhalable dust) 4 mg/m ³ (respirable dust)	-	-

Legal basis: Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values.

EH40/2005 Workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.

Monitoring procedures: Use methods described in European Standards.

8.2. Exposure controls

Mandatory general regulations on occupational health. Do not allow to exceed the normative concentrations of hazardous constituents in the workplace. After work, wash and clean the surface of the body and clothing. Do not eat, drink, smoke or take drugs at work. Take off immediately all contaminated clothing and wash it before reuse. Wash hands and face before break and after working with the product. Provide adequate ventilation, during working with the product.

Eye/face protection: Wear suitable tight protective goggles with face shields (in accordance with EN 166).

Skin Protection: Wear suitable protective gloves made of nitrile rubber (in accordance with EN 374). Use protection cream.

Respiratory protection: Wear appropriate respiratory protection when working under a dusty atmosphere: mask or respirator with an air filter P1 type.

Thermal Hazards: Usually not required.

Used personal protective equipment should meet the requirements of local/regional/national laws. The employer must provide personal protective equipment appropriate to the type of work and meeting all requirements, including maintenance and cleaning.

Concentrations of hazardous substances in the workplace should be monitored in accordance with acknowledged test methods. Mode, method, type and frequency of testing

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
Sorbotech LG, GG		
Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 5/8

and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Environmental exposure controls: The large amount of product should not be allowed to penetrate through the ground water, sewage, waste water or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	<u>Solid, granules</u>
Colour:	Black
Odour:	Odourless
Melting point/freezing point:	>1000 °C
Boiling point or initial boiling point and boiling range:	>1000 °C
Flammability:	Not specified
Lower and upper explosion limit:	Not specified
Flash point:	Not specified
Auto-ignition temperature:	<u>350-400 °C</u>
Decomposition temperature:	Not specified
pH:	Not specified
Kinematic viscosity:	Not specified
Solubility:	Insoluble in water
Partition coefficient n-octanol/water (log value):	Not specified
Vapour pressure:	Not specified
Density and/or relative density:	Density: 2.31 g/cm ³
Relative vapour density:	Not specified
Particle characteristics:	Not specified

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not specified.

9.2.2. Other safety characteristics

Bulk density: 350-550 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with strong acids and strong oxidizing agent.

10.2. Chemical stability

Stable under normal conditions of storage.

10.3. Possibility of hazardous reactions

Contact with strong oxidizing agents may cause rapid ignition/explosion. May form explosible dust-air mixture if dispersed.

10.4. Conditions to avoid

Do not expose to air at temperatures above 200 °C. Do not expose to direct sunlight.

10.5. Incompatible materials

Avoid contact with strong acids and strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal conditions of use and storage.

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
Sorbotech LG, GG		
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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not specified.

11.2.2. Other information

Inhalation: Dust may cause respiratory tract irritation.

Skin contact: May cause skin irritation.

Eye contact: In high concentration product cause serious conjunctivitis and inflammation of the cornea of the eye.

Ingestion: May cause mucous membranes of mouth and throat irritation.

SECTION 12: Ecological information

12.1. Toxicity

Does not meet the criteria of classification as dangerous for the environment.

12.2. Persistence and degradability

Not specified.

12.3. Bioaccumulative potential

Not specified.

12.4. Mobility in soil

Insoluble in water, not mobile in soil.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Endocrine disrupting properties

Not specified.

12.7. Other adverse effects

Not specified.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

During removal of waste comply with the regional/national laws.

Community legislation:

- Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.
- European Parliament and Council Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

ACTIVATED CARBON ACES ENVIRONMENTAL SOLUTIONS	SAFETY DATA SHEET In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended	
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Date: 22.04.2016	Revision: 22.02.2022	Page/pages: 7/8

Disposal methods for the product: Do not introduce into the environment. Disposal in accordance with the local/national legislation.

Disposal methods for used packing: Empty containers give for appropriate rubbish dump or for disposal in accordance with the local/national legislation.

SECTION 14: Transport information

	ADR	RID	AND	IMDG	ICAO TI
14.1. UN number or ID number	Not specified				
14.2. UN proper shipping name	Not specified				
14.3. Transport hazard class(es)	Not specified				
14.4. Packing group	Not specified				
14.5. Environmental hazards	Not specified				
14.6. Special precautions for user	During cargo handling use personal protective equipment - see Section 8				
14.7. Maritime transport in bulk according to IMO instruments	Not specified				

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

15.2. Chemical safety assessment

The Chemical Safety Assessment has been performed.

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SECTION 16: Other information

The full text of H-statements from Sections 2 and 3:

None.

Key to abbreviations and acronyms:

BLV - Biological Limit Value.

STEL - Short-term exposure limit.

TWA - 8 hours' time-weighted average.

Sources of key data:

Producers SDS from 2nd November 2015 (version 1).

Training advice: Before use read the SDS.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.

Prepared by ISOTOP Consulting Company; **www.isotop.pl**; e-mail: **reach@isotop.pl**

SDS from 19.10.2021 (Version 4) has been revised in sections 1.1, 1.3, 9.1. Changes have been underlined.

This SDS replaces and annuls all the previous versions.



Signed by /
Podpisano przez:

Agata Weronika Lis

Date / Data: 2026-
07-30 15:15



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WĘGIEL AKTYWNY; FILTRY WĘGLOWE; ZŁOŻA FILTRACYJNE; KOMPLEKSOWE ROZWIĄZANIA ŚRODOWISKOWE

Gdynia, 30.07.2026

Declaration of Origin country and manufacturer

I, the undersigned below, declare that the goods described below:

- **SORBOTECH® LG 85 8 x 30**

Originate in People's Republic of China and manufactured by ACES Sp. z o.o., Legionów 69 St., 81-413 Gdynia, Poland.



Signed by /
Podpisano przez:

Agata Weronika Lis

Date / Data: 2026-
07-30 15:15

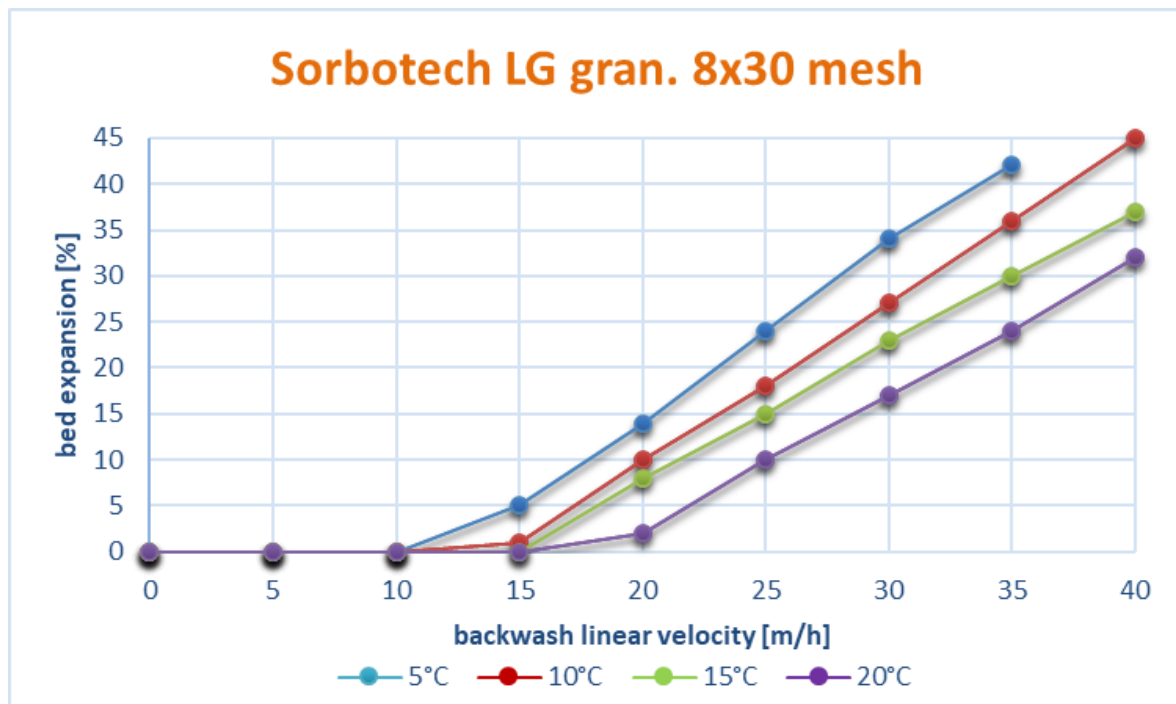


Table 1. Bed expansion curves for Sorbotech® LG series (8x30 mesh) in different temperatures.

Input Data

- Activated carbon particle size: **8×30 mesh** (0.6–2.36 mm)
- Bulk density: **500 kg/m³**
- Backwash intensity: **16 L/s/m²**
- Linear backwash velocity:

$$v = \frac{16 \text{ L/s}}{1 \text{ m}^2} = 0.016 \text{ m/s} = 57.6 \text{ m/h}$$

- Media bed depths:
 - Quartz sand – 1.5 m
 - Activated carbon – 0.5 m
 - Gravel – 0.2 m

Total media depth: **2.2 m**

Filter chamber height: **5.0 m**

Freeboard above the media: **2.8 m**

Assessment

Granular activated carbon (GAC) with a particle size of 8×30 mesh and a bulk density of approximately 500 kg/m³ is a standard media commonly used in multimedia water treatment filters.

The calculated superficial backwash velocity is 57.6 m/h. According to the bed expansion curves for 8×30 mesh granular activated carbon, this backwash velocity is higher than the recommended value for a standalone GAC bed and would be expected to produce excessive bed expansion under typical operating conditions. However, in the proposed configuration, the activated carbon is used as part of a multimedia filter, together with quartz sand and gravel. This arrangement reduces the risk of excessive media expansion and is consistent with standard design practice for multilayer filters.

In addition, the filter chamber height is 5.0 m, while the total media depth is only 2.2 m, leaving approximately 2.8 m of freeboard above the media. This provides sufficient space for bed expansion during backwashing, and therefore no media washout is expected, provided that the actual backwash flow rate corresponds to the design value.

Conclusion

Based on the available data, the proposed 8×30 mesh granular activated carbon with a bulk density of 500 kg/m³ is considered suitable for the specified multimedia filter. Although the calculated backwash velocity is relatively high for a standalone activated carbon bed, its use in combination with quartz sand and gravel, together with the available freeboard, indicates that the risk of media washout is low. Final verification should be based on the backwash water temperature and the particle size characteristics of all filter media.

Note: The use of granular activated carbon in the same filter bed together with sand and gravel is generally not recommended. Sand primarily serves to retain suspended solids and other particulate contaminants. During backwashing, the release and redistribution of these accumulated solids may lead to their deposition within the activated carbon layer, potentially causing pore blockage, reducing the effective adsorption capacity of the carbon, promoting media agglomeration (mudball formation), and shortening the service life of the activated carbon.



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Podpisano przez:

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WĘGIEL AKTYWNY; FILTRY WĘGLOWE; ZŁOŻA FILTRACYJNE; KOMPLEKSOWE ROZWIĄZANIA ŚRODOWISKOWE

Gdynia, 30.07.2026

Declaration of Conformity

ACES Sp. z o.o., as producer and dealer of Sorbotech® activated carbons hereby declare that technical parameters of supplied activated carbon type:

- **SORBOTECH® LG 85 8 x 30**

comply with:

- EN standard 12915-1:2009 "Products used for the treatment of water intended for human consumption – Granular activated carbon – part 1: virgin granular activated carbon".
- Declaration of origin country and manufacturer
- SORBOTECH® LG 85 – technical data sheet
- SORBOTECH® LG – MSDS
- SORBOTECH® LG – bed washout

Offered product has REACH compliance and Hygienic certificate issued by National Institute of Public Health NIH – National Research Institute, Poland.



Signed by /
Podpisano przez:

Agata Weronika Lis

Date / Data: 2026-
07-30 15:15



ATEST HIGIENICZNY

B.BK.60110.0014.2025

HYGIENIC CERTIFICATE

ORYGINAŁ

NATIONAL INSTITUTE OF PUBLIC HEALTH NIH – NATIONAL RESEARCH INSTITUTE

Wyrób / product: **Węgiel aktywny SORBOTECH: LG, LAG, LGCO, GG, GGCO**

Zawierający / containing: węgiel aktywny bitumiczny i z łupin orzecha kokosowego

Przeznaczony do / destined: stosowania w procesach uzdatniania wody przeznaczonej do spożycia przez ludzi

Wymieniony wyżej produkt odpowiada wymaganiom higienicznym przy spełnieniu następujących warunków
/ the above-named product is acceptable according to hygienic criteria with the following conditions:

Na opakowaniu wyrobu należy umieścić etykietę w języku polskim, zawierającą zalecenia dotyczące środków ostrożności wg karty charakterystyki wyrobu, zgodnie z obowiązującymi przepisami prawnymi. Wyrób przechowywać w miejscu niedostępnym dla dzieci.

Atest higieniczny nie dotyczy parametrów technicznych wyrobu / The hygienic certificate does not apply to technical parameters of the product.



Signed by /
Podpisano przez:

Agata Weronika Lis

Date / Data: 2026-
07-30 15:15

Wytwórca / producer:

ACES Sp. z o.o.
81-413 Gdynia
ul. Legionów 69

Niniejszy dokument wydano na wniosek / this certificate issued for:

ACES Sp. z o.o.
81-413 Gdynia
ul. Legionów 69

Atest może być zmieniony lub unieważniony po przedstawieniu stosownych dowodów przez którąkolwiek stronę. Niniejszy atest traci ważność po 2028.03.06 lub w przypadku zmian w recepturze albo w technologii wytwarzania wyrobu.

The certificate may be corrected or cancelled after appropriate motivation. The certificate loses its validity after 2028.03.06 or in the case of changes in composition or in technology of production.

Data wydania atestu higienicznego: 6 marca 2025

The date of issue of the certificate: 6th March 2025

p.o. Kierownika
Zakładu Bezpieczeństwa Zdrowotnego
Środowiska

Maciej Górecki
dr n. med. Maciej Szczotko