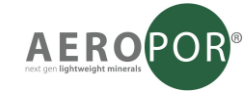


Environmental Product Declaration (EPD)
According to ISO 14025 and EN 15804+A2



AEROPOR® – Lightweight Aggregate

Registration number:	EPD-Kiwa-EE-000469-EN
Issue date:	13.02.2026
Valid until:	13.02.2031
Declaration owner:	AEROPOR GmbH
Publisher:	Kiwa-Ecobility Experts
Program operator:	Kiwa-Ecobility Experts
Status:	verified



1 General information

1.1 PRODUCT

AEROPOR® is a purely mineral, largely closed-pore expanded natural glass.

1.2 REGISTRATION NUMBER

EPD-Kiwa-EE-000469-EN

1.3 VALIDITY

Issue date: 13.02.2026

Valid until: 13.02.2031

1.4 PROGRAM OPERATOR

Kiwa-Ecobility Experts
Wattstraße 11-13
13355 Berlin
Germany



Raoul Mancke
*(Head of program operations,
Kiwa-Ecobility Experts)*



Onur Üzüm
*(Verification body, Kiwa-
Ecobility Experts)*

1.5 OWNER OF THE DECLARATION

Declaration owner: AEROPOR GmbH

Address: Industriestr. 13, 96120 Bischberg, Germany

E-mail: info@aeropor.eu

Website: www.aeropor.eu

Production location: Bischberg

Address production location: Industriestr. 13, 96120 Bischberg, Germany

1.6 VERIFICATION OF THE DECLARATION

The independent verification is in accordance with the ISO 14025:2011. The LCA is in compliance with ISO 14040:2006 and ISO 14044:2006. The EN 15804:2012+A2:2019 serves as the core PCR.

Internal External



Yixuan Mao
(Third party verifier)

1.7 STATEMENTS

The owner of this EPD shall be liable for the underlying information and evidence. The program operator Kiwa-Ecobility Experts shall not be liable with respect to manufacturer data, life cycle assessment data and evidence.

1.8 PRODUCT CATEGORY RULES

Kiwa-EE GPI R.3.0

Kiwa-Ecobility Experts, General Programme Instructions “Product Level”, Program EE 1201 (27.02.2025)

Kiwa-EE GPI R.3.0 Annex B1

Kiwa-Ecobility Experts, General Programme Instructions “Product Level” – Annex B1 Environmental Information Programme according to EN 15804 / ISO 21930, Program EE 1203 (27.02.2025)]

1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPDs programs may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

1.10 CALCULATION BASIS

LCA method: EN15804+A2

LCA software: LCA for Experts

Characterization method: EN 15804+A2, (basierend auf EF 3.1)

LCA database profiles: LCA for Experts (Version 10.9.3.0)

Version database: Sphera MLC (Content version 2025.1)

1.11 PROJECT REPORT

This EPD is generated on the basis of the following report: LCA-Bericht_AEROPOR_AEROPOR GmbH_20251110.

2 Product

2.1 PRODUCT DESCRIPTION

AEROPOR® is a closed-pored lightweight aggregate based on natural volcanic glass, featuring a vitrified surface and a multi-cellular structure that is both lightweight and pressure-/shear-force stable. The closed-pore surface ensures low water absorption. The declared products will be sent to the customers as loose material, in Big Bags (Polypropylene) or in paper bags.

This is a product group EPD (the products shown differ in the classification of the raw material, temperature settings, and residence times in the production kiln) covering all AEROPOR® grain sizes listed in the table below. These are manufactured at the Bischberg production site. The declared unit refers to one tonne of AEROPOR®.

For placing the product on the market in the EU/EFTA (except Switzerland), Regulation (EU) No. 305/2011 (CPR) applies. The product requires a Declaration of Performance and a Declaration of Conformity in accordance with EN 13055:2016-11 “Lightweight aggregates”, and CE marking.

For use, the respective national regulations apply.

Product	Bulk density (kg/m³)
AEROPOR® 150	600
AEROPOR® 180	420
AEROPOR® 300	350
AEROPOR® 300L	350
AEROPOR® 500	250
AEROPOR® 1000	250
AEROPOR® 1000	160
AEROPOR® 1250	120
AEROPOR® 2000	120

Product specification

All AEROPOR® products covered in this EPD consist of 100% natural glass (see the table below):

Constituent	Weight [m-%]
Natural glass	100

2.2 APPLICATION (INTENDED USE OF THE PRODUCT)

AEROPOR® is used as a lightweight aggregate in construction chemicals, paints and coatings, plasters and mortars, cosmetics, plastics technology and many other applications. AEROPOR® makes these products lighter and more yield-efficient; it also improves their application properties (easier to work with) and provides many other benefits that result from the use of lightweight aggregates.

2.3 REFERENCE SERVICE LIFE (RSL)

RSL PRODUCT

The reference service life (RSL) is not declared for lightweight aggregates, as these are intermediate products. The service life therefore depends on the final product into which AEROPOR® is processed.

USED RSL (YR) IN THIS CALCULATION

See above.

2.4 TECHNICAL DATA

An overview of the construction-technical data of the declared products is given below:

Property	150	180	300	300L	500	1000	1000	1250	2000	
Bulk density (kg/m ³)	600	420	350	350	250	250	160	120	120	
Grain size (µm)	45-150	50-180	50-300	50-300	250-500	500-1000	500-1000	200-1250	200-2000	
Apparent density* (kg/m ³)	810	700	650	650	500	500	360	200	200	
Lower- / Upper sieve size (M.-%)					≤ 15 / ≤ 10					
Softening point (°C)					> 1100°C					
Colour	cream		light cream		cream					

*Tolerance range according to DIN EN 13055: max. 15 wt.-%.

The thermal conductivity ranges between 45.70 – 95.67 mW/(m·K), depending on the AEROPOR® grain size.

2.5 SUBSTANCES OF VERY HIGH CONCERN

The product does not contain any substances from the ‘Candidate List of Substances of Very High Concern’ (SVHC) in quantities exceeding 0.1% (1,000 ppm).]

2.6 DESCRIPTION PRODUCTION PROCESS

The production flow diagram of the declared products and the declared/non-declared modules in the EPD is given below:

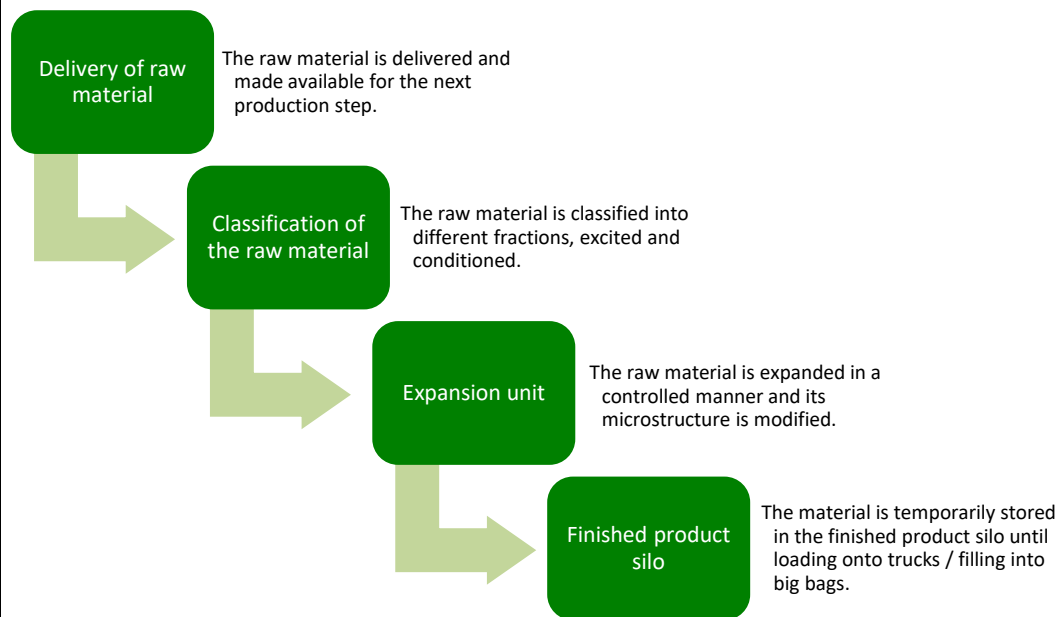


Figure 1: Process flow diagramm

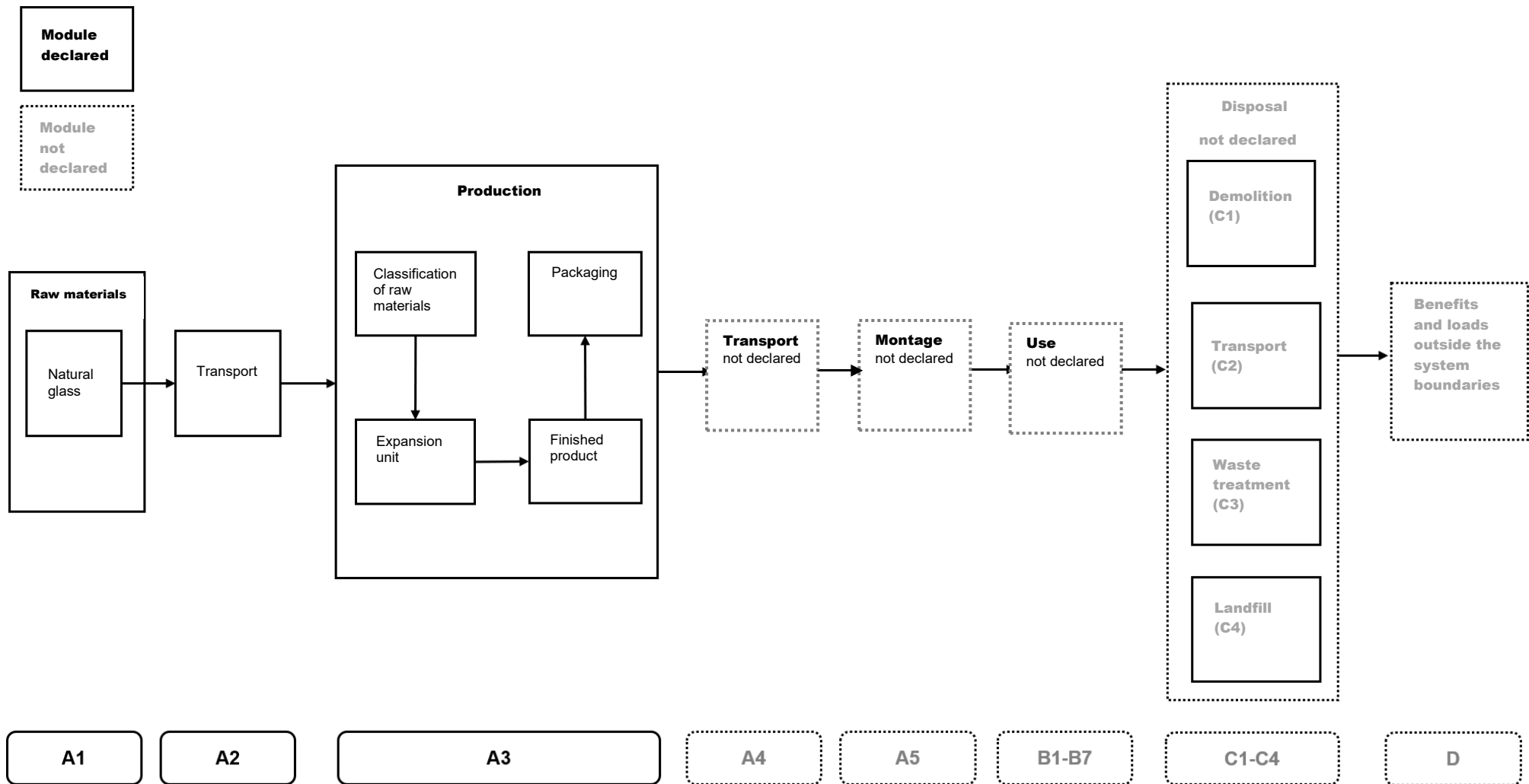


Figure 2: Declared and non-declared modules in the EPD.

3 Calculation rules

3.1 DECLARED UNIT

1 tonne AEROPOR® (average bulk density 300 kg/m³)

3.2 CONVERSION FACTORS

Description	Value	Unit
Reference unit	1	Tonne (t)
Weight per reference unit	1000	kg
Conversion factor to 1 kg	0,001	Tonne (t)

3.3 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

EPD type: product group EPD.

The end-of-life stage is not assessed, as the declared product is not a final product. Disposal depends on the final product in which AEROPOR® is used.

The life cycle stages are shown in the following figure:

(X = module declared, ND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

The modules of the EN15804+A2 contain the following:

Module A1 = Raw material supply	Module B5 = Refurbishment
Module A2 = Transport	Module B6 = Operational energy use
Module A3 = Manufacturing	Module B7 = Operational water use
Module A4 = Transport	Module C1 = De-construction /

	Demolition
Module A5 = Construction - Installation process	Module C2 = Transport
Module B1 = Use	Module C3 = Waste Processing
Module B2 = Maintenance	Module C4 = Disposal
Module B3 = Repair	Module D = Benefits and loads beyond the product system boundaries
Module B4 = Replacement	

3.4 REPRESENTATIVENESS

This Environmental Product Declaration (EPD) is a product group EPD from AEROPOR GmbH. It is based on a weighted average of the products listed in section 2.1 and represents the environmental impacts of this product group.

Geographical representativeness: Germany.

3.5 CUT-OFF CRITERIA

All data from the operational data survey are considered, i.e., all input and auxiliary materials used, the thermal energy applied, and the electricity consumption. However, the system boundaries are limited to production-relevant data. Buildings or plant components that are not relevant to product manufacturing are excluded.

Based on the data analysis, it can be assumed that the sum of the neglected processes does not exceed 5% per life cycle stage. For the LCA calculation, material and energy flows below 1% are also considered.

3.6 ALLOCATION

Allocation was avoided as far as possible. Double counting is avoided and the polluter-pays (causation) principle is applied. The declared product contains no secondary materials.

3.7 DATA COLLECTION & REFERENCE TIME PERIOD

The primary data, including all raw materials, packaging materials, energy consumption, and auxiliary materials, were comprehensively collected for the reporting year from 01/01/2024 to 31/12/2024. Data quality with regard to geographical, technological, and temporal representativeness can be assessed as good.

3.8 ESTIMATES AND ASSUMPTIONS

For all raw materials used (raw materials, operating materials, packaging), the transport distance was recorded. For all lorry transports (supplier deliveries, waste/disposal transports, and internal transports), a payload factor of 85% is applied. The production of capital goods, construction activities, and the development of infrastructure, as well as the maintenance and operation of capital goods, are not considered. In addition, personnel-related activities and the energy and water consumption associated with company administration and sales are not included in the calculation.

The declaration of modules C1–C4 and module D is omitted, since the product is physically integrated into other products during installation, making separation at the end of its life cycle impossible. Furthermore, due to transformation processes during disposal, the product is no longer identifiable. For production scrap, material credits including depreciation were allocated.

3.9 DATA QUALITY

All process-specific data were collected for the operating year 2024 and are therefore up to date. The input and output data of the individual products that form part of the averaging could be collected specifically for each product included in the average. To ensure comparability of the results, only consistent background datasets from the Life Cycle Assessment for Experts (LCAFE) software (Sphera) – Content Version 2025.1 were used in the LCA (e.g., datasets for energy, transport, auxiliary and operating materials), referring to the reference year 2024. The database is regularly reviewed and thus complies with the requirements of EN 15804 (background data not older than 10 years). All consistent datasets contained in the above-mentioned database are documented and can be viewed in the LCAFE online documentation. The primary data were provided by AEROPOR GmbH. Data quality in terms of geographical, technological, and temporal representativeness can be rated as very good to good (see the description in the following table).

Quality requirement	Specific requirement	Data quality level	Notes
Time-related coverage	Age of data and minimum time period for data collection.	Very good	The processes included in the dataset are fully representative

			for the region specified under 'Location' in the metadata.
Geographical coverage	Upstream: Unit process for raw material should be collected for respective geographic region	Very good	Complies with the specific requirement.
	Core: Unit process for production should represent the real site.	Very good	Represents the actual location
	Downstream: End-of-life disposal should represent the region of disposal.	-	End-of-life disposal (modules C and D) is not included in the EPD.
Technical representativeness	Qualitative assessment of the degree to which the data set reflects the true population of interest (technology)	Very good	Technological aspects were modelled exactly as described in the title and metadata; there is no significant need for improvement.

3.10 POWER MIX

The energy mix is taken into account using a market-based approach. In this context, green electricity purchased from the power supplier and backed by guarantees of origin is considered. The share of green electricity with guarantees of origin in the total electricity consumption amounts to 100%. The GWP-total of the electricity is calculated as 0.01 kg CO₂-eq/kWh.

4 Scenarios and additional technical information

4.1 RAW MATERIAL SUPPLY (A1)

Raw material extraction and processing, and the processing operations of the basic and auxiliary materials used.

4.2 TRANSPORT (A2)

Transport to the factory gate, including the transport mode and transport distance (to the plant gate).

4.3 MANUFACTURING (A3)

Manufacturing, including the provision of all materials, products and energy (electricity), as well as the complete waste treatment up to the end of waste status (DIN EN 15804+A2: Chapter 6.3.5.5) or the disposal of residual waste generated during the manufacturing phase.

4.4 CONSTRUCTION PROCESS STAGE (A4-A5)

Not declared.

4.5 USE STAGE (B1-B7)

Not declared.

4.6 END OF LIFE STAGE (C1-C4)

Not declared.

4.7 BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARY (D)

Not declared.

5 Results

For the impact assessment, the characterization factors of the LCIA method EN 15804+A2 Method v1.0 are used. Long-term emissions (>100 years) are not taken into account in the impact assessment. The impact assessment results are only relative statements and do not provide information on endpoints of the impact categories, exceedance of threshold values, safety margins, or risks. The following tables show the results of the impact assessment indicators, resource use, as well as waste and other output flows.

5.1 ENVIRONMENTAL IMPACT INDICATORS PER TONNE

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abbreviation	Unit	A1	A2	A3	A1-A3
AP	mol H ⁺ eqv.	1.18E-01	1.29E-01	3.93E-02	2.86E-01
GWP-total	kg CO ₂ eqv.	4.04E+01	1.06E+02	8.6E+00	1.55E+02
GWP-b	kg CO ₂ eqv.	1.85E-01	2.89E+00	4.84E-01	3.56E+00
GWP-f	kg CO ₂ eqv.	3.99E+01	1.01E+02	8.10E+00	1.49E+02
GWP-luluc	kg CO ₂ eqv.	2.91E-01	1.88E+00	1.14E-02	2.18E+00
EP-m	kg N eqv.	5.19E-02	4.66E-02	5.02E-03	1.04E-01
EP-fw	kg P eqv.	1.47E-04	2.64E-04	1.07E-04	5.18E-04
EP-T	mol N eqv.	5.70E-01	5.66E-01	5.41E-02	1.19E+00
ODP	kg CFC 11 eqv.	5.33E-10	2.29E-11	1.70E-11	5.73E-10
POCP	kg NMVOC eqv	1.40E-01	1.22E-01	1.70E-02	2.79E-01
ADP-f	MJ	5.28E+02	1.28E+03	1.79E+02	1.98E+03
ADP-mm	kg Sb-eqv.	6.30E-06	1.66E-05	9.65E-05	1.19E-04
WDP	m ³ world eqv.	1.53E+01	6.69E-01	6.91E-01	1.53E+01

AP=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication, marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS EN15804+A2

Abkürzung	Einheit	A1	A2	A3	A1-A3
ETP-fw	CTUe	ND	ND	ND	ND
PM	Disease incidence	ND	ND	ND	ND
HTP-c	CTUh	ND	ND	ND	ND
HTP-nc	CTUh	ND	ND	ND	ND
IR	kBq U-235 eqv.	ND	ND	ND	ND
SQP	Pt	ND	ND	ND	ND

ETP-fw=Ecotoxicity, freshwater (ETP-fw) | **PM**=Particulate Matter (PM) | **HTP-c**=Human toxicity, cancer (HTP-c) | **HTP-nc**=Human toxicity, non-cancer (HTP-nc) | **IR**=Ionising radiation, human health (IR) | **SQP**=Land use (SQP)

CLASSIFICATION OF DISCLAIMERS TO THE DECLARATION OF CORE AND ADDITIONAL ENVIRONMENTAL IMPACT INDICATORS

ILCD classification	Indicator	Disclaimer
ILCD type / level 1	Global warming potential (GWP)	None
	Depletion potential of the stratospheric ozone layer (ODP)	None
	Potential incidence of disease due to PM emissions (PM)	None
ILCD type / level 2	Acidification potential, Accumulated Exceedance (AP)	None
	Eutrophication potential, Fraction of nutrients reaching freshwater end compartment (EP-freshwater)	None
	Eutrophication potential, Fraction of nutrients reaching marine end compartment (EP-marine)	None
	Eutrophication potential, Accumulated Exceedance (EP-terrestrial)	None
	Formation potential of tropospheric ozone (POCP)	None
	Potential Human exposure efficiency relative to U235 (IRP)	1
ILCD type / level 3	Abiotic depletion potential for non-fossil resources (ADP-minerals & metals)	2
	Abiotic depletion potential for fossil resources (ADP-fossil)	2
	Water (user) deprivation potential, deprivation-weighted water consumption (WDP)	2
	Potential Comparative Toxic Unit for ecosystems (ETP-fw)	2
	Potential Comparative Toxic Unit for humans (HTP-c)	2
	Potential Comparative Toxic Unit for humans (HTP-nc)	2
	Potential Soil quality index (SQP)	2

Disclaimer 1 – This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

5.2 INDICATORS DESCRIBING RESOURCE USE AND ENVIRONMENTAL INFORMATION BASED ON LIFE CYCLE INVENTORY (LCI) PER TONNE

PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A1-A3
PERE	MJ	2.75E+02	1.38E+02	5.70E+03	6.11E+03
PERM	MJ	0.00E+00	0.00E+00	5.47E+00	5.47E+00
PERT	MJ	2.75E+02	1.38E+02	5.71E+03	6.12E+03
PENRE	MJ	5.28E+02	1.28E+03	1.79E+02	1.99E+03
PENRM	MJ	0.00E+00	0.00E+00	3.03E+01	3.03E+01
PENRT	MJ	5.28E+02	1.28E+03	2.09E+02	2.02E+03
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.01E-01	1.32E-01	3.29E-01	5.61E-01

PERE=renewable primary energy ex. raw materials | **PERM**=renewable primary energy used as raw materials | **PERT**=renewable primary energy total | **PENRE**=non-renewable primary energy ex. raw materials | **PENRM**=non-renewable primary energy used as raw materials | **PENRT**=non-renewable primary energy total | **SM**=use of secondary material | **RSF**=use of renewable secondary fuels | **NRSF**=use of non-renewable secondary fuels | **FW**=use of net fresh water

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A1-A3
HWD	kg	5.96E-07	5.43E-08	2.96E-05	3.03E-05
NHWD	kg	2.94E-01	2.11E-01	7.51E-01	1.26E+00
RWD	kg	2.30E-02	1.72E-03	1.10E-03	2.58E-02

HWD=hazardous waste disposed | **NHWD**=non-hazardous waste disposed | **RWD**=radioactive waste disposed

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A1-A3
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	0.00E+00	0.00E+00	1.38E+02	1.38E+02
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EET	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CRU=Components for re-use | MFR=Materials for recycling | MER=Materials for energy recovery | EET=Exported Energy Thermic | EEE=Exported Energy Electric

5.3 INFORMATION ON BIOGENIC CARBON CONTENT PER KILOGRAMM

The following information describes the biogenic carbon content in (the main parts of) the product at the factory gate per kilogram:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0.324	kg C

UPTAKE OF BIOGENIC CARBON DIOXIDE

The following amount of carbon dioxide uptake is taken into account. Related uptake and release of carbon dioxide in downstream processes are not taken into account in this number, although they do appear in the presented results. One kilogram of biogenic carbon content is equivalent to 44/12 kg of biogenic carbon dioxide uptake.

Uptake biogenic carbon dioxide	Amount	Unit
Product	0	kg CO ₂ (biogenic)
Packaging	1.19	kg CO ₂ (biogenic)

6 Interpretation of results

6.1 CONTRIBUTION ANALYSIS

The environmental impacts of AEROPOR® are driven by transport in almost all impact categories. Electricity and packaging play a secondary role in the overall environmental impacts. Due to the use of green electricity, the environmental impacts from manufacturing are minimal in nearly all impact categories.

The allocation of the main environmental impacts in the production stage (modules A1–A3) is shown in the following diagram.

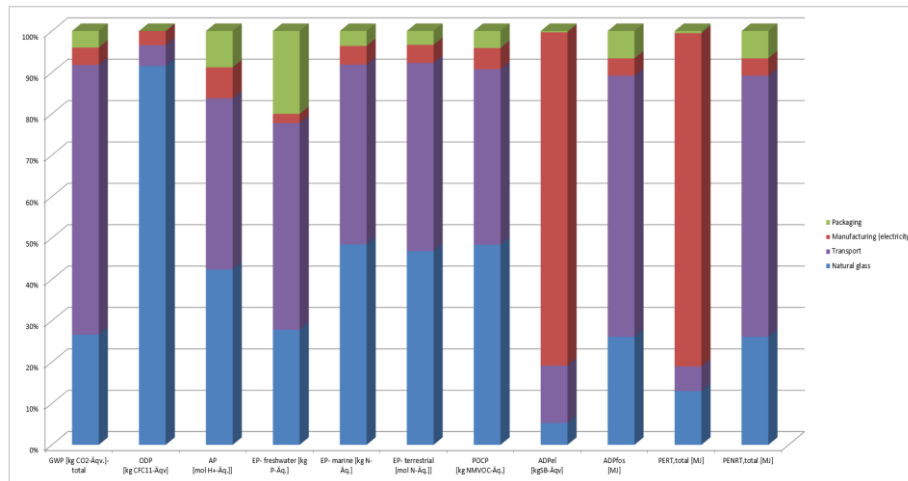


Figure 3: Overview of the environmental impacts during the production stage (modules A1–A3).

6.2 SENSITIVITY ANALYSIS

The following table shows the deviations of the AEROPOR® grain sizes considered from the declared average product. The environmental impacts of the products differ by less than 10%. It has therefore been demonstrated that the AEROPOR® products included in the averaging do not differ significantly from one another across the impact categories.

Abbreviation	Unit	AEROPOR® Average (A1 – A3)	AEROPOR® 150	AEROPOR® 180	AEROPOR® 300	AEROPOR® 500	AEROPOR® 1000 (250g/l)	AEROPOR® 1000 (160g/l)	AEROPOR® 2000
AP	mol H ⁺ eqv.	2.86E-01	0.32%	0.02%	-0.02%	-0.42%	-0.39%	-0.20%	0.61%
GWP-total	kg CO ₂ eqv.	1.55E+02	0.18%	0.01%	-0.01%	-0.24%	-0.22%	-0.11%	0.35%
GWP-b	kg CO ₂ eqv.	3.56E+00	-0.02%	0.00%	0.00%	0.02%	0.02%	0.01%	-0.03%
GWP-f	kg CO ₂ eqv.	1.49E+02	0.18%	0.01%	-0.01%	-0.23%	-0.22%	-0.11%	0.34%
GWP-luluc	kg CO ₂ eqv.	2.18E+00	0.02%	0.00%	0.00%	-0.02%	-0.02%	-0.01%	0.03%
EP-m	kg N eqv.	1.04E-01	0.20%	0.01%	-0.01%	-0.26%	-0.24%	-0.13%	0.38%
EP-fw	kg P eqv.	5.18E-04	0.09%	0.01%	-0.01%	-0.12%	-0.11%	-0.06%	0.18%
EP-T	mol N eqv.	1.19E+00	0.19%	0.01%	-0.01%	-0.25%	-0.23%	-0.12%	0.36%
ODP	kg CFC 11 eqv.	5.73E-10	0.16%	0.01%	-0.01%	-0.20%	-0.19%	-0.10%	0.30%
POCP	kg NMVOC eqv	2.79E-01	0.23%	0.02%	-0.01%	-0.29%	-0.28%	-0.14%	0.43%
ADP-f	MJ	1.98E+03	0.18%	0.01%	-0.01%	-0.23%	-0.22%	-0.11%	0.34%
ADP-mm	kg Sb-eqv.	1.19E-04	3.34%	0.25%	-0.22%	-4.67%	-4.36%	-2.21%	6.16%
WDP	m ³ world eqv.	1.53E+01	0.50%	0.06%	0.00%	-0.58%	-0.54%	-0.26%	0.92%

AP=Acidification (AP) | **GWP-total**=Global warming potential (GWP-total) | **GWP-b**=Global warming potential - Biogenic (GWP-b) | **GWP-f**=Global warming potential - Fossil (GWP-f) | **GWP-luluc**=Global warming potential - Land use and land use change (GWP-luluc) | **EP-m**=Eutrophication, marine (EP-m) | **EP-fw**=Eutrophication, freshwater (EP-fw) | **EP-T**=Eutrophication, terrestrial (EP-T) | **ODP**=Ozone depletion (ODP) | **POCP**=Photochemical ozone formation - human health (POCP) | **ADP-f**=Resource use, fossils (ADP-f) | **ADP-mm**=Resource use, minerals and metals (ADP-mm) | **WDP**=Water use (WDP)

Abbreviation	Unit	AEROPOR® Average (A1 – A3)	AEROPOR® 150	AEROPOR® 180	AEROPOR® 300	AEROPOR® 500	AEROPOR® 1000 (250g/l)	AEROPOR® 1000 (160g/l)	AEROPOR® 2000
PERE	MJ	6.11E+03	3.83%	0.29%	-0.25%	-5.42%	-5.06%	-2.55%	7.03%
PERM	MJ	5.47E+00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PERT	MJ	6.12E+03	3.83%	0.29%	-0.25%	-5.42%	-5.06%	-2.55%	7.03%
PENRE	MJ	1.99E+03	0.18%	0.01%	-0.01%	-0.24%	-0.22%	-0.11%	0.34%
PENRM	MJ	3.03E+01	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
PENRT	MJ	2.02E+03	0.18%	0.01%	-0.01%	-0.24%	-0.22%	-0.11%	0.34%
FW	m³	5.61E-01	0.37%	0.03%	-0.02%	-0.48%	-0.45%	-0.23%	0.70%

PERE=renewable primary energy ex. raw materials | **PERM**=renewable primary energy used as raw materials | **PERT**=renewable primary energy total | **PENRE**=non-renewable primary energy ex. raw materials | **PENRM**=non-renewable primary energy used as raw materials | **PENRT**=non-renewable primary energy total | **SM**=use of secondary material | **RSF**=use of renewable secondary fuels | **NRSF**=use of non-renewable secondary fuels | **FW**=use of net fresh water

Abbreviation	Unit	AEROPOR® Average (A1 – A3)	AEROPOR® 150	AEROPOR® 180	AEROPOR® 300	AEROPOR® 500	AEROPOR® 1000 (250g/l)	AEROPOR® 1000 (160g/l)	AEROPOR® 2000
HWD	kg	3.03E-05	4.01%	0.30%	-0.26%	-5.69%	-5.31%	-2.68%	7.34%
NHWD	kg	1.26E+00	2.48%	0.18%	-0.16%	-3.39%	-3.17%	-1.61%	4.60%
RWD	kg	2.58E-02	0.43%	0.03%	-0.03%	-0.56%	-0.53%	-0.27%	0.81%
MFR	kg	1.38E+02	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

HWD=hazardous waste disposed | **NHWD**=non-hazardous waste disposed | **RWD**=radioactive waste disposed | **MFR**=Materials for recycling

7 References

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ISO 14040:2006-10, Environmental management - Life cycle assessment - Principles and framework; EN ISO 14040:2006

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ISO 14025:2011-10: Environmental labels and declarations — Type III environmental declarations — Principles and procedures

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