



SM Transparency Catalog

Carboline

Pyrocrete Series



Pyrocrete Series Pyrocrete 239, 241, 341 & 40

Carboline's Pyrocrete products offer high-performance, cost-effective fire protection solutions for both interior and exterior steel structures and assemblies where the highest level of physical performance and durability are paramount. These wet mix, Portland cement based products have been formulated to meet any performance criteria and IBC building code requirements for commercial and industrial environments, providing specifiers the ultimate flexibility in design and construction. The Pyrocrete Series has been tested and certified for a variety of exposures and has successful performance in actual hydrocarbon fires in refining and petrochemical facilities around the world.





Performance dashboard

Features & functionality

Certifications include UL 263, ASTM E119, UL 1709, BS 476, Jet Fire

Cryogenic protection and fire protection in one Asbestos-free – complies with EPA and OSHA

regulations

Off-site and on-site application options

Cost effective fireproofing solution

Visit Carboline for more product information Pyrocrete 239

Pyrocrete 241 Pyrocrete 341 Pyrocrete 40

Environment & materials

Improved by:

UL 1709 Rapid Rise Hydrocarbon Fire BS476-20 Appendix D Hydrocarbon Pool Fire NFPA 290 Torch & Hose Stream FM Global (Factory Mutual) Post-consumer recycled content used

Certifications & rating systems:

Environmental Product Declaration (EPD)

Tested and certified to the UL 2431 Durability of Fire Resistive Coatings and Materials, Category I-A ASTM E84 - 0/0 SCAQMD Rule 1113 Compliant

Tested to meet (CDPH) Standard Method v1.2

MasterFormat® 07 81 00 **Pyrocrete Series Product Data Sheets:** Pyrocrete 239, Pyrocrete 241, Pyrocrete 341, Pyrocrete 40 For spec help, contact us or call 281.414.9710

See LCA, interpretation & rating systems





SM Transparency Report (EPD)™

LCA

VERIFICATION Ø **3rd-party reviewed** Transparency Report (EPD)

3rd-party verified

The declaration is intended for use in Business-to-Consumer (B-to-C) communication.

Validity: 20230213 – 20280212 Decl #: CAR-20230213-004

This environmental product declaration (EPD) was externally verified, according to ASTM PCR for Spray-applied Fire Resistive Materials, and ISO 14025:2006, by Jack Geibig, President, Ecoform.

Ecoform, LLC 11903 Black Road, Knoxville, TN 37932

(865) 850-1883



SUMMARY Reference PCR

Regions; system boundaries North America; Cradle to gate

Declared unit / reference service life: 1,000 kg of product

LCIA methodology: TRACI 2.1

LCA software; LCI database SimaPro Developer 9.4 Ecolnvent 3.8, US-EI 2.2, and ELCD

LCA conducted by: Sustainable Minds

Public LCA:

databases.

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Contact us

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SM Transparency Catalog

Carboline

Pyrocrete Series

LCA results & interpretation

Pyrocrete Series

Life cycle assessment

Scope and summary

Cradle to gate \bigcirc Cradle to gate with options \bigcirc Cradle to grave

Product description

Carboline's Pyrocrete products are Portland cement-based, cementitious fireproofing that is mixed with clean, potable water onsite before application. The products are spray applied to the substrate using either piston or rotor stator or squeeze type pumps. Pyrocrete products provide fire protection for structural steel and can also be used to upgrade the fire resistance of existing concrete. They are high density cementitious fireproofing products designed for the fire protection of exterior and interior structural steel.

Carboline's Pyrocrete series includes four products: Pyrocrete 239, Pyrocrete 241, Pyrocrete 341, and Pyrocrete 40. The impacts are presented for these four products covered in this report. The kraft paper bag packaging weight for these products as delivered are 1.66 kg, 1.54 kg, 0.56kg, and 1.66 kg, respectively.

Declared unit

The declared unit is 1,000 kg of product. The results in this report are expressed in terms of potential impacts per 1,000 kg of product from cradle to gate.

Manufacturing data

Time coverage: The data covers annual manufacturing data for the 2021 calendar year from Carboline's manufacturing plant in Lake Charles, Louisiana. This period of time was chosen in order to capture a representative picture of businesses activities at Carboline.

Geographical coverage: The geographical coverage for this study is based on United States system boundaries for all processes and products.

Material composition greater than 1% by weight

MATERIAL	AVG % WT .
Cement	50-60%
Mica	10-20%
Vermiculite	10-20%
Ceramic	10-20%
Thickener	5-10%
Additives	5-10%

Total impacts by life cycle stages [mPts/per func unit]

1.60E+02		LIFE CYCLE STAGE MP1	S/DECL. UNIT
		Raw material supply	1.41E+02
	Transportation of raw materials	5.58E+00	
		Manufacturing	9.25E+00
		A variation of 10 to 20% A variation great	er than 20%

What's causing the greatest impacts

All life cycle stages

Activities during the supply of raw materials (A1) are responsible for much of the impacts in each impact category. The next highest impact contributor is manufacturing (A3) in most of the impact categories.

Raw material supply

Raw material supply (A1) includes raw material extraction and upstream processing. This module dominates the results for most of the impact categories. For example, A1 accounts for over 65% of the impact of global warming, smog, and acidification. It also contributes to over 50% of ozone depletion and eutrophication.

Transportation

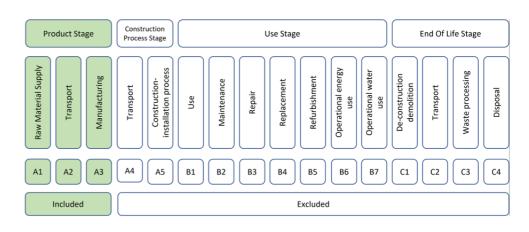
Average transportation distances and modes of transport are included for the transportation of raw materials to the production facility. Typical vehicles used include trucks and ships. Transportation of raw materials is a relatively small contributor to all product life cycle impacts.

Manufacturing

Manufacturing (A3) is the second highest contributor to eight impact categories for Pyrocrete 239, seven impact categories for Pyrocrete 241, five impact categories for Pyrocrete 341, and six impact categories for Pyrocrete 40.

System boundary

The figure below illustrates the system boundary for the LCA, defining which life cycle stages are included and which are excluded. For this report, the system boundary is cradle-to-gate, which includes modules A1, A2, and A3: raw materials extraction, processing, transportation, and manufacturing/final assembly for both the product and its associated packaging. All other life cycle stages are excluded from the analysis.

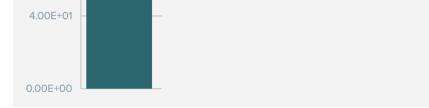


Sensitivity analysis

Sensitivity analyses were performed to check the robustness of the results where the highest potential environmental impacts are occurring. As the bulk of impacts are attributed to raw materials acquisition and processing, the mass of specified raw materials was changed by +/-20%. These raw materials were chosen based on a combination of relatively higher contribution to the results.

Global warming potential was evaluated for sensitivity since Carboline is interested in the potential CO2-equivalent emissions of its products. The range of change in total life cycle impacts was in a +/-6-12% change.

Carboline is committed to finding new and efficient alternatives in manufacturing, raw material sourcing, and logistics to improve



sustainability efforts. One of Carboline's most impactful contributions is the creation of the SLOB Program (slow moving and obsolete inventory). To reduce hazardous waste generation, the SLOB Program was designed to provide optics to Carboline's Inventory Analytics Team to review inventory close to expiration. Preventative measures are taken to rework inventory or sell this material at a discounted rate, with the ultimate goal of preventing little to zero waste of unused material. As an RPM company, Carboline is dedicated to working towards reaching the goals that have been set through RPM's Building a Better World Program. These goals include reducing energy consumption, landfill contributions, and water reuse/conservation opportunities.

See how we make it greener

LCA results

8.00E+01

LIFE CYCLE STAGE	PRODUCTION STAGE	PRODUCTION STAGE	PRODUCTION STAGE
Information modules: Included (X) Excluded* (MND)	A1 Raw material supply	A2 Transport	A3 Manufacturing
*Modules A4, A5, B, C, and D are excluded.			

SM Single Score Learn about SM Single Score results

Impacts per 1,000kg of coating	1.41E+02 mPts	5.58E+00 mPts	9.25E+00 mPts
Materials or processes contributing >20% to total impacts in each life cycle stage	Energy used for raw material extraction (electricity and fuels).	Truck and trailer transportation (fuel consumption).	Energy and electricity consumed for coating production.

Pyrocrete 239: TRACI v2.1 results per declared unit

LIFE CYCLE STAGE			A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	
Ecological damage						
Impact category	Unit					
Acidification	kg SO ₂ eq	0	2.10E+00	1.00E-01	4.73E-01	
Eutrophication	kg N eq	?	3.36E-01	1.95E-02	1.52E-01	
Global warming (embodied carbon)	kg CO ₂ eq	0	6.41E+02	5.33E+01	1.78E+02	
Ozone depletion	kg CFC-11 eq	0	2.85E-05	1.27E-05	7.59E-06	

Human health damage

Impact category	Unit				
Carcinogenics	CTU _h	?	1.89E-05	4.89E-08	1.05E-06
Non-carcinogenics	CTU _h	?	6.01E-05	7.45E-06	8.85E-06
Respiratory effects	kg PM _{2.5} eq	?	2.80E-01	1.91E-02	6.86E-02
Smog	kg O ₃ eq	?	3.73E+01	1.32E+00	6.97E+00

Additional environmental information

	Impact category	Unit				
	Fossil fuel depletion	MJ, LHV	?	3.38E+02	1.13E+02	2.44E+02
	Ecotoxicity	CTU _e	?	4.10E+02	1.51E+02	2.14E+02
0	See the additional content r	equired by the AS	STM	PCR for spray-applied fire-resistive i	naterials on page 4 of the Transpar	ency Report PDF.

Pyrocrete 241: TRACI v2.1 results per declared unit

LIFE CYCLE STAGE	-	A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING
Ecological damage				
Impact category	Unit			

Acidification	kg SO ₂ eq	•	2.19E+00	1.38E-01	4.52E-01
Eutrophication	kg N eq	0	1.88E-01	2.89E-02	1.59E-01
Global warming - IPCC (Embodied Carbon)	kg CO ₂ eq	•	5.78E+02	7.97E+01	1.94E+02
Ozone depletion	kg CFC-11 eq	0	3.31E-05	1.90E-05	7.33E-06

Human health damage

Impact category	Unit	Unit				
Carcinogenics	CTU _h	?	8.32E-05	7.31E-08	1.07E-06	
Non-carcinogenics	CTU _h	?	1.61E-04	1.12E-05	8.48E-06	
Respiratory effects	kg PM _{2.5} eq	•	3.09E-01	2.79E-02	6.46E-02	
Smog	kg O ₃ eq	?	3.18E+01	1.78E+00	6.61E+00	

Additional environmental information

Impact category	Unit				
Fossil fuel depletion	MJ, LHV	0	3.39E+02	1.69E+02	2.41E+02
Ecotoxicity	CTU _e	?	1.12E+03	2.26E+02	2.05E+02

See the additional content required by the ASTM PCR for spray-applied fire-resistive materials on page 4 of the Transparency Report PDF.

Pyrocrete 341: TRACI v2.1 results per declared unit

LIFE CYCLE STAGE			A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING	
Ecological damage						
Impact category	Unit					
Acidification	kg SO ₂ eq	0	2.91E+00	2.26E-01	2.70E-01	
Eutrophication	kg N eq	?	3.36E-01	4.39E-02	1.17E-01	
Global warming - IPCC (Embodied Carbon)	kg CO ₂ eq	0	9.57E+02	1.20E+02	1.98E+02	
Ozone depletion	kg CFC-11 eq	?	7.00E-05	2.85E-05	5.01E-06	
Human health dama	ge					
Impact category	Unit					
Carcinogenics	CTU _h	?	7.33E-05	1.10E-07	6.96E-07	
Non-carcinogenics	CTU _h	?	1.65E-04	1.67E-05	4.51E-06	
Respiratory effects	kg PM _{2.5} eq	?	2.58E+00	4.28E-02	3.02E-02	
Smog	kg O ₃ eq	?	4.18E+01	2.99E+00	3.43E+00	
Additional environmental information						

impact category	Onic				
Fossil fuel depletion	MJ, LHV	0	1.31E+03	2.53E+02	2.13E+02
Ecotoxicity	CTU _e	?	1.16E+03	3.38E+02	9.94E+01
See the additional content r	equired by the A	STM	PCR for spray-applied fire-resistive i	naterials on page 4 of the Transpar	ency Report PDF.

Pyrocrete 40: TRACI v2.1 results per declared unit

Unit

LIFE CYCLE STAGE			A1 RAW MATERIAL SUPPLY	A2 TRANSPORT	A3 MANUFACTURING
Ecological damage					
Impact category	Unit				
Acidification	kg SO ₂ eq	?	2.13E+00	1.65E-01	4.75E-01
Eutrophication	kg N eq	?	2.82E-01	3.31E-02	1.66E-01
Global warming - IPCC (Embodied Carbon)	kg CO ₂ eq	•	6.60E+02	9.07E+01	1.96E+02
Ozone depletion	kg CFC-11 eq	0	2.98E-05	2.16E-05	7.61E-06

Human health damage

Impact category

Impact category	Unit				
Carcinogenics	CTU _h	0	4.95E-05	8.31E-08	1.12E-06
Non-carcinogenics	CTU _h	•	6.92E-05	1.27E-05	8.97E-06
Respiratory effects	kg PM _{2.5} eq	•	3.13E-01	3.21E-02	6.88E-02
Smog	kg O ₃ eq	•	3.39E+01	2.15E+00	7.00E+00

Additional environmental information

Impact category	Unit				
Fossil fuel depletion	MJ, LHV	?	4.79E+02	1.92E+02	2.44E+02
Ecotoxicity	CTU _e	?	7.01E+02	2.57E+02	2.19E+02

See the additional content required by the ASTM PCR for spray-applied fire-resistive materials on page 4 of the Transparency Report PDF.

References

LCA Background Report

Carboline Spray-Applied Fire-Resistive Materials LCA Background Report (public version), Carboline 2022; SimaPro Analyst 9.4; Ecoinvent 3.4 and US ecoinvent (US-EI 2.2) database; TRACI 2.1

PCRs

PCR for Spray-applied Fire-Resistive Materials (SFRM)

Valid through Feb. 29, 2023. PCR review conducted by Thomas P. Gloria (Industrial Ecology Consultants), Ph. D; Jeffrey E. Gould (FM Approvals); Karl D. Houser, (Intertek Building and Construction).

ISO 14025, "Sustainability in buildings and civil engineering works -- Core rules for environmental product declarations of construction products and services"

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Download PDF SM Transparency Report, which includes the additional EPD content required by the ASTM PCR.

SM Transparency Reports (TR) are ISO 14025 Type III environmental declarations (EPD) that enable purchasers and users to compare the potential environmental performance of products on a life cycle basis. Environmental declarations from different programs (using different PCR) may not be comparable. In order to support comparative assertions, this EPD meets all comparability requirements stated in ISO 14025:2006. However, differences in certain assumptions, data quality, and variability between LCA data sets may still exist. As such, caution should be exercised when evaluating EPDs from different manufacturers, as the EPD results may not be entirely comparable. Any EPD comparison must be carried out at the building level per ISO 21930 guidelines. The results of this EPD reflect an average performance by the product and its actual impacts may vary on a case-to-case basis.

Rating systems

The intent is to reward project teams for selecting products from manufacturers who have verified improved life-cycle environmental performance.

LEED BD+C: New Construction | v4 - LEED v4

Building product disclosure and optimization

Environmental product declarations

O Industry-wide (generic) EPD	½product
Service Product-specific Type III EPD	1 product

LEED BD+C: New Construction | v4.1 - LEED v4.1 Building product disclosure and optimization Environmental product declarations

Industry-wide (generic) EPD	1 product
S Product-specific Type III EPD	1.5 product

BREEAM New Construction 2018

Mat 02 - Environmental impacts from construction products Environmental Product Declarations (EPD)

O Industry-average EPD	.5 points
Multi-product specific EPD	.75 points
Product-specific EPD	1 point

SM Transparency Report (EPD)™

LCA

VERIFI	CATION	

3rd-party reviewed

Transparency Report (EPD)

3rd-party verified

The declaration is intended for use in Business-to-Consumer (B-to-C) communication.

Validity: 20230213 – 20280212 Decl #: CAR-20230213-004



Ecoform, LLC

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11903 Black Road,

Knoxville, TN 37932

SUMMARY Reference PCR

ASTM PCR for Spray-applied Fire Resistive Materials

Regions; system boundaries North America; Cradle to gate Declared unit / reference service life:

1,000 kg of product LCIA methodology: TRACI 2.1

LCA software; LCI database SimaPro Developer 9.4 Ecolnvent 3.8, US-EI 2.2, and ELCD

databases.

LCA conducted by: Sustainable Minds Public LCA:

ife Cycle Assessment of Carboline Spray-Applied Fire-Resistive Materials

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This environmental product

Spray-applied Fire Resistive

declaration (EPD) was externally

verified, according to ASTM PCR for

Materials, and ISO 14025:2006, by

Jack Geibig, President, Ecoform.

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Contact us





SM Transparency Catalog

Carboline

Pyrocrete Series

How we make it greener

Collapse all

RAW MATERIAL ACQUISITION

Carboline is dedicated to improving raw material sustainability efforts. These initiatives include researching alternative methods to acquire raw materials, while being conscience of their environmental impact and opting for suppliers who place emphasis on sustainable manufacturing techniques/renewable energy processes.



TRANSPORTATION

In an effort to reduce multiple long distance LTL shipments, Carboline has initiated pooling orders from local warehousing sites vs. shipping individual orders from multiple manufacturing and warehousing locations throughout the country.



Carboline is always exploring solutions to reduce energy usage throughout the production process. Some of these initiatives include –

- Installing VFD drives to reduce electrical usage for mixing units
- Upgrading air driers with the intent of generating better air, which could result in using less air in the production process
- Researching solar installation at Carboline's Dayton, Nevada manufacturing site



Pyrocrete Series

See LCA results by life cycle stage



SM Transparency Report (EPD)™

LCA

VERIFICATION

3rd-party reviewed

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LCA conducted by: Sustainable Minds

Public LCA:

Life Cycle Assessment of Carboline Spray Applied Fire-Resistive Materials Carboline Global Inc. 2150 Schuetz Rd. St. Louis, MO 63146 https://www.carboline.com/ 314-644-1000

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Additional EPD content required by: ASTM PCR: Spray-applied Fire-Resistive Materials (SFRM)

Data

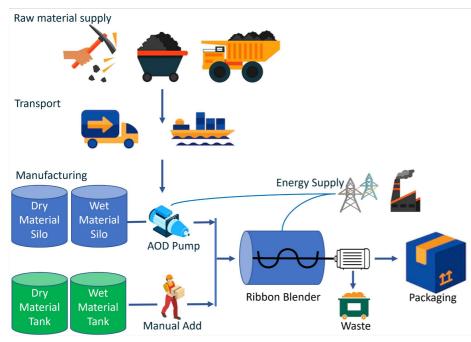
Background This product-specific declaration was created by collecting life cycle data for the Pyrocrete Series for a declared unit of 1,000 kg of product. Data adopted in the model include ecoinvent v3, US-EI 2.2, and ELCD databases.

Allocation The manufacturing inputs that needed allocation were electricity and natural gas since there are only one electric use meter and one gas use meter that include the production of multiple Carboline fire-resistive materials. The allocation of electricity and natural gas were based on the percentage of production for the individual product divided by total site production output. In addition, there is no co-product produced in the manufacturing process.

 $\ensuremath{\textit{Cut-off criteria}}\xspace$ A minimum of 95% of the total mass, energy, and environmental relevance for the system were captured. The total of neglected input flows per module does not exceed 5% of energy usage, mass, and environmental impacts. The cut-off rules do not apply to hazardous and toxic properties, which must be listed even when the given process unit is under the cut-off criterion. No known flows are deliberately excluded from this declaration; therefore, these criteria have been met. No biogenic carbon enters the product system.

Quality All primary data were collected for one year to ensure representativeness of annual business activities and post-consumer contents. Except for overseas transportation, secondary datasets for the US were used since Carboline products are expected to be applied in the US.

Flow Diagram:



This flow diagram has been designed using assets from Freepik.com

Pyrocrete Series

Scenarios and additional technical info	ormation	
PARAMETER (for 1,000 kg finished product)	VALUE	UNIT
Additional technical information		
Color	Non-Uniform, S	Speckled Gray
Application Thickness (Initial pass)		
Pyrocrete 239 & 241 & 40	1/2" - 5/8" (12.7	- 15.9 mm)
Pyrocrete 341	3/4" - 1 1/2" (19	- 38.1 mm)
Preferred waste management option for used products	Landfill	
The reinforcement is not relevant to the products.		
Pyrocrete series does not contain any materials conside	arod hazardous	that must bo

Pyrocrete series does not contain any materials considered hazardous that must be reported.

Product Stage [A1-A3]

Road - Vehicle type	Lorry, 16-32 to	n
Ocean - Vehicle type	Ocean freight	
Scrap in production	0.8 - 2.9	%
Packaging for finished products	Kraft paper ba	g
Associated packaging Pyrocrete 239	0.073	%
Associated packaging Pyrocrete 241	0.068	%
Associated packaging Pyrocrete 341	0.025	%
Associated packaging Pyrocrete 40	0.073	%

Major assumptions and limitations:

- Material input and transportation distances are averages and do not reflect changes in material efficiency and supplier locations.
- Proxy materials were used when matching secondary data sets were not identified.
- Generic data sets used for material inputs, transport, and waste processing are considered good quality, but actual impacts from material suppliers, transport carriers, and local waste processing may vary.
- LCA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.
- This EPD covers only the cradle-to-gate impacts of products using a declared unit. The results listed in this EPD cannot be used to compare between products.

Major system boundary exclusions:

- Capital goods & infrastructure; maintenance and operation of support equipment;
- Manufacture & transport of packaging materials not associated with final product;
- Human labor and employee transport;
- Building operational energy and water use not associated with final product.

Pyrocrete 239: LCIA results, resource use, output and waste flows, and carbon emissions & removals per declared unit

				-	
Parameter	Unit	A1	A2	А3	Total
LCIA results (per 1,000kg)					
Ozone depletion	kg CFC-11 eq	2.85E-05	1.27E-05	7.59E-06	4.88E-05
Global warming	kg CO ₂ eq	6.41E+02	5.33E+01	1.78E+02	8.72E+02
Smog	kg O ₃ eq	3.73E+01	1.32E+00	6.97E+00	4.56E+01
Acidification	kg SO ₂ eq	2.10E+00	1.00E-01	4.73E-01	2.68E+00
Eutrophication	kg N eq	3.36E-01	1.95E-02	1.52E-01	5.08E-01
Carcinogenics	CTUh	1.89E-05	4.89E-08	1.05E-06	2.00E-05
Non-carcinogenics	CTUh	6.01E-05	7.45E-06	8.85E-06	7.64E-05
Respiratory effects	kg PM _{2.5} eq	2.80E-01	1.91E-02	6.86E-02	3.68E-01
Ecotoxicity	CTUe	4.10E+02	1.51E+02	2.14E+02	7.75E+02
Fossil fuel depletion	MJ surplus	3.38E+02	1.13E+02	2.44E+02	6.95E+02
Total primary energy consumption					
Nonrenewable fossil	MJ, HHV	3.37E+03	8.00E+02	1.96E+03	6.14E+03
Nonrenewable nuclear	MJ, HHV	2.59E+02	8.25E-01	1.86E+02	4.46E+02
Renewable (solar, wind, hydroelectric, and geothermal)	MJ, HHV	1.19E+02	7.20E-01	3.88E+01	1.59E+02
Renewable (biomass)	MJ, HHV	4.90E+02	2.62E-01	2.54E+03	3.03E+03
Material resources consumption					
Nonrenewable material resources	kg	0	0	9.96E+02	9.96E+02
Renewable material resources	kg	0	0	7.30E+01	7.30E+01
Net fresh water	m ³	2.34E+01	2.30E-01	9.25E+00	3.28E+01
Nonhazardous waste generated	kg	0	0	1.94E-01	1.94E-01
Hazardous waste generated	kg	0	0	0	0
Carbon emissions and removals					
Biogenic Carbon Removal from Product	kg CO ₂	0	0	0	0
Biogenic Carbon Emission from Product	kg CO ₂	0	0	0	0
Biogenic Carbon Removal from Packaging	kg CO ₂	0	0	3.22E+01	3.22E+01
Biogenic Carbon Emission from Packaging	kg CO ₂	0	0	0	0
Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes	kg CO ₂	0	0	0	0
Calcination Carbon Emissions	kg CO ₂	0	0	0	0
Carbonation Carbon Removals	kg CO ₂	0	0	0	0
Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes	kg CO ₂	0	0	0	0

Pyrocrete 241: LCIA results, resource use, output and waste flows, and carbon emissions & removals per declared unit

manamathmathmathmathmathmathmathLBacepreseNorm	Parameter				-	
nembraNoteNoteNoteNoteNoteNoteNoteSampNote <t< td=""><td>Parameter</td><td>Unit</td><td>A1</td><td>A2</td><td>A3</td><td>Total</td></t<>	Parameter	Unit	A1	A2	A3	Total
NameNomeNa			2 215 05	1905.05	7225.06	5 9/5 05
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name	Acidification	kg SO ₂ eq	2.19E+00	1.38E-01	4.52E-01	2.78E+00
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namen	Carcinogenics	CTUh	8.32E-05	7.31E-08	1.07E-06	8.44E-05
randpartp	Non-carcinogenics	CTUh	1.61E-04	1.12E-05	8.48E-06	1.81E-04
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IndependenceInstructure	Ecotoxicity	CTUe	1.12E+03	2.26E+02	2.05E+02	1.55E+03
non-sectionNormal <td>Fossil fuel depletion</td> <td>MJ surplus</td> <td>3.39E+02</td> <td>1.69E+02</td> <td>2.41E+02</td> <td>7.49E+02</td>	Fossil fuel depletion	MJ surplus	3.39E+02	1.69E+02	2.41E+02	7.49E+02
NoteNoteStatumStatumStatumStatumStatumBandmannaStatumStatumStatumStatumStatumBandmannaStatumSt	Total primary energy consumption					
NoteNo	Nonrenewable fossil	MJ, HHV	3.70E+03	1.20E+03	1.93E+03	6.82E+03
NameN	Nonrenewable nuclear	MJ, HHV	4.27E+02	1.23E+00	1.83E+02	6.12E+02
monomemodemodemodemodeHarmanaa <td< td=""><td>Renewable (solar, wind, hydroelectric, and geothermal)</td><td>MJ, HHV</td><td>8.59E+02</td><td>1.08E+00</td><td>3.66E+01</td><td>8.97E+02</td></td<>	Renewable (solar, wind, hydroelectric, and geothermal)	MJ, HHV	8.59E+02	1.08E+00	3.66E+01	8.97E+02
NationalNote of the set of the	Renewable (biomass)	VHH LM	3.61E+01	3.92E-01	2.36E+03	2.40E+03
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managemanmatematematematemateReasessemmeiii<	Material resources consumption					
network hermonynnn<	Nonrenewable material resources	kg	0	0	1.00E+03	1.00E+03
namenamenamenamenamenamenamenameN	Renewable material resources	kg	0	0	6.78E+01	6.78E+01
non-net of the sectornon-net of the sectorHeatsane managementisingisingisingisingBascha CharameterisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingProceed Statistic MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter MeangementisingisingisingisingisingisingisingBascharameter Meangementisingisingisingisingisin	Net fresh water	m ³	2.46E+01	2.97E-01	6.56E+00	3.15E+01
Note of the section	Nonhazardous waste generated	kg	0	0	5.13E-02	5.13E-02
anymetric sequence s	Hazardous waste generated	kg	0	0	0	0
number of the sectornumber of the sector	Carbon emissions and removals					
managemathemagemagemathemagemagemathemagemagemathemagemagemagemathemagemagemagemagemagemagemagemagemagemag	Biogenic Carbon Removal from Product	kg CO ₂	0	0	0	0
Non-Control Bayers Control Bayers Control Bayers Contro Bayers Contro Bayers Contro Bayers Contro Bayers Contro Bayers Contro BayersNon-Contro Bayers </td <td>Biogenic Carbon Emission from Product</td> <td>kg CO₂</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Biogenic Carbon Emission from Product	kg CO ₂	0	0	0	0
Non- of the section	Biogenic Carbon Removal from Packaging	kg CO ₂	0	0	2.99E+01	2.99E+01
Base-Control Resultant StreamResultSolutionS	Biogenic Carbon Emission from Packaging	kg CO ₂	0	0	0	0
source denome frameis and is and 	Biogenic Carbon Emission from Combustion of Waste from Renewable	-	0	0	0	0
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Source coeff production ProcessesNoiseNoiseNoiseNoiseNoiseProceeded 341: LCIA results, resource use, out/puttiesHowanaIdea <t< td=""><td></td><td>kg CO₂</td><td></td><td></td><td></td><td></td></t<>		kg CO ₂				
PermeterNoteNoteNoteNoteBeamengenomNorme		kg CO ₂	0	0	0	0
Like set with the set of th	Pyrocrete 341: I CIA results recourse use output				· ·	
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Acid adiatationNo.ArieState ActionSt	Parameter LCIA results (per 1,000kg)	Unit	A1	A2	A3	Total
Fund Budgehald Budgehald BudgehaldFund 	Parameter LCIA results (per 1,000kg) Ozone depletion	Unit kg CFC-11 eq	A1 7.00E-05	A2 2.85E-05	A3 5.01E-06	Total 1.04E-04
Arring CarcinogenicsArringName CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster CarcinogenicsAster 	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming	Unit kg CFC-11 eq kg CO ₂ eq	A1 7.00E-05 9.57E+02	A2 2.85E-05 1.20E+02	A3 5.01E-06 1.98E+02	Total 1.04E-04 1.27E+03
Non-cardingClub18E-0418FE-054.5E-0518E-04Resplanatory effectsisp PM_s eq2.58E+004.28E 023.02E+022.65E+00BeaterstandClub3.0E+033.0E+033.0E+033.0E+031.5E+03BeaterstandClubSub-ob3.0E+033.0E+033.0E+031.5E+03BeaterstandMayelva1.2E+043.0E+033.0E+031.5E+033.0E+03BatterstandMal.HW1.2E+041.5E+031.5E+033.0E+023.0E+02Renewable facial:Mal.HW3.0E+021.5E+033.0E+023.0E+02Renewable facial:Mal.HW3.2E+021.6E+033.0E+023.0E+02Renewable facial:Mal.HW1.7E+033.0E+013.0E+023.0E+02Renewable facial:Mal.HW1.7E+031.6E+033.0E+023.0E+02Renewable facial:Mal.HW1.7E+031.6E+033.0E+023.0E+02Renewable facial:Mal.HW1.7E+031.6E+033.0E+023.0E+02Renewable factorizesMal.HW1.7E+031.6E+033.0E+023.0E+02Renewable factorizesMal.HW1.7E+031.6E+033.0E+033.0E+03Renewable factorizesMal.HW1.6E+031.6E+033.0E+033.0E+03Renewable factorizesMal.HW1.6E+031.6E+033.0E+033.0E+03Renewable factorizesMal.HW1.6E+031.6E+033.0E+033.0E+03Renewable factorizesMal.HW <td>Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog</td> <td>Unit kg CFC-11 eq kg CO₂ eq kg O₃ eq</td> <td>A1 7.00E-05 9.57E+02 4.18E+01</td> <td>A2 2.85E-05 1.20E+02 2.99E+00</td> <td>A3 5.01E-06 1.98E+02 3.43E+00</td> <td>Total 1.04E-04 1.27E+03 4.83E+01</td>	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog	Unit kg CFC-11 eq kg CO ₂ eq kg O ₃ eq	A1 7.00E-05 9.57E+02 4.18E+01	A2 2.85E-05 1.20E+02 2.99E+00	A3 5.01E-06 1.98E+02 3.43E+00	Total 1.04E-04 1.27E+03 4.83E+01
network of the service of the servi	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification	Unit kg CFC-11 eq kg CO ₂ eq kg O ₃ eq kg SO ₂ eq	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00
Production<	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication	Unit kg CFC-11 eq kg CO ₂ eq kg O ₃ eq kg SO ₂ eq kg N eq	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01
Ecoadirdyrue13E-03338-0294E-0115E-03Foodil tud depletionk3 arguba312-0353E-0353E-0376E-03Total primary energy consumptionMJ. HW12E-0417E-0315E-0356E-0356E-03Nomenewable fosalMJ. HW12E-0415E-0315E-0256E-0356E-03Renewable fosal: wind, hydroelectric, and geotherman)MJ. HW32E-0215E-0363E-0257E-02Renewable fosal: wind, hydroelectric, and geotherman)MJ. HW17E-0258E-0183E-0257E-02Renewable fosal: wind, hydroelectric, and geotherman)MJ. HW17E-0258E-0183E-0257E-02Renewable fosal: wind, hydroelectric, and geotherman)MJ. HW17E-0258E-0183E-0257E-02Renewable fosal: wind, hydroelectric, and geotherman)MJ. HW17E-0258E-0182E-0257E-02Norterewable fosal: wind, hydroelectric, and geothermanMg. Mg.1092E-0257E-0257E-02Norterewable forsaurcesMg00057E-0257E-0257E-02Norterewable material resourcesMg. Mg. Mg. Mg. Mg. Mg. Mg. Mg. Mg. Mg.	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics	Unit kg CFC-11 eq kg CO ₂ eq kg O ₃ eq kg SO ₂ eq kg N eq CTUh	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05
YouYouYouYouYouYouYouYouPasali depletionMi swape184-00184-00184-00184-00Total primewable foolaMi,HY124-04196-03180-03184-03Narenewable foolar, wind, hydroelectric, and geothermationMi,HYU176-02188-01180-0148-02Renewable foolar, wind, hydroelectric, and geothermationMi,HYU176-02180-01180-0148-02Renewable foolar, wind, hydroelectric, and geothermationMi,HYU176-02180-01180-01180-01180-01Renewable foolar, wind, hydroelectric, and geothermationMi,HYU176-02180-01180-01180-01180-01Renewable foolar, wind, hydroelectric, and geothermationMi,HYU176-02180-01180-01180-01180-01180-01Renewable foolar, wind, hydroelectric, and geothermationMi,HYU180-01180-01180-01180-01180-01180-01Renewable foolar, was generatedMi,HYU180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01180-01<	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04
Normerwable for all of the second s	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh kg PM25 eq	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00
Nonrenewable fossilNU, HHV12E-04179E-0316DE-03146E-04Nomenewable foolar, wind, hydroelectric, and geothermal)MJ, HHV320E-02180E-0018DE-01345E-02Renewable (solar, wind, hydroelectric, and geothermal)MJ, HHV107E-02589E-01863E-0290E-02Renewable (blomass)MJ, HHV107E-02589E-01863E-0290E-02Material resources consumptionkg00962E-02962E-02Nonrenewable material resourceskg00246E-01348E-01Nontaerdous waste generatedkg0000Nontaezrdous waste generatedkg0000Bogenic Carbon Removal from ProductkgC0,0000Biogenic Carbon Removal from Producton Productor ProcesseskgC0,0000Biogenic Carbon Removal from Productor Processes	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhkg PM25 eqCTUe	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02 3.38E+02	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03
NormerNo. HMNo. HMNo. HMSole No.IsteriorIsteriorIsteriorRenewable (solar, wind, hydroelectric, and geotherma)M, HMS2E402IsteriorIsteriorSase-0Renewable (solar, wind, hydroelectric, and geotherma)M, HMVNo. Pro12Sase-0Sase-0Sase-0Renewable (solar, wind, hydroelectric, and geotherma)M, HMVNo. Pro12Sase-0Sase-0Sase-0Sase-0Material resourcesM, HMVNo. Pro12Sase-0Sase-0Sase-0Sase-0Sase-0Renewable material resourcesKg00Sase-0Sase-0Sase-0Renewable material resourcesKgSase-0Sase-0Sase-0Sase-0Sase-0Norheazerdous waste generatedKgSase-0Sase-0Sase-0Sase-0Sase-0Norheazerdous waste generatedSase-0Sase-0Sase-0Sase-0Sase-0Sase-0Biogenic Carbon Finderon FonductSase-0Sase-0Sase-0Sase-0Sase-0Sase-0Biogenic Carbon Finderon FonductSase-0Sase-0Sase-0Sase-0Sase-0Sase-0Biogenic Carbon Finderon Fonductor Fonducto	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Ecotoxicity Fossil fuel depletion	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhkg PM25 eqCTUe	A1 7.00E-05 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02 3.38E+02	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03
ActionActionActionActionActionActionRenewable (solar, wind, hydroelectric, and geothermal)MJ, HHV3254021864008636+023768+02Renewable (solorass)MJ, HHV1076+025896-016626+025626+02Material resources consumptionkg000626+025626+02Renewable material resourceskg0002466+015626+02Not resh waterm²3606+013626+013636+015636+015636+01Nothazardous waste generatedkg00000Hazardous waste generatedkg Co200000Biogenic Carbon Removal from Productkg Co2000000Biogenic Carbon Removal from Productkg Co20000000Biogenic Carbon Removal from Productkg Co200000000Biogenic Carbon Removal from Productkg Co20000000000Biogenic Carbon Removal from Productkg Co200	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Ecotoxicity Fossil fuel depletion Total primary energy consumption	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhkg PM25 eqMJ surplus	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02 3.38E+02 2.53E+02	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03
Renewable (biomass)Normal M, HHVIOTE+02SABE-01RefereSABE+02SOTE+02Material resources consumptionkg00SAEE+02SABE+02SAEE+02Nornenewable material resourceskg002.46E+012.46E+01SABE+02Renewable material resourceskg002.46E+01SABE+01Norter waterm³360E+013.62E+023.63E+023.63E+01Norhezardous waste generatedkg000.59E+01SABE+01Hazardous waste generatedkg00000Biogenic Carbon Removal from Productkg C0200000Biogenic Carbon Emission from Productkg C02000000Biogenic Carbon Emission from Productkg C020000000Biogenic Carbon Emission from Production of Waste from Nemeeneekg C0200000000Biogenic Carbon Emission from Combustion of Waste from Nemeeneekg C02000<	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Ecotoxicity Fossil fuel depletion Total primary energy consumption Nonrenewable fossil	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh CTUh kg PM25 eq MJ surplus	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.12E+04	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 1.78E+03
Noncrease ProductionNoncrease Pro	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Eotoxicity Fossil fuel depletion Nonrenewable fossil Nonrenewable nuclear	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhCTUhMJ surplusMJ, HHVMJ, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.12E+04 7.30E+02	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.59E+03 1.78E+03 1.78E+04 1.46E+04 8.91E+02
Nomenewable material resourceskg00962E+02962E+02Renewable material resourceskg002.46E+012.46E+01Net fresh waterm³3.60E+013.62E-012.03E+003.83E+01Nonhazardous waste generatedkg004.59E-014.59E-01Hzardous waste generatedkg0000Bogenic Carbon Removal from Productkg C020000Biogenic Carbon Emission from Productkg C020000Biogenic Carbon Emission from Productkg C020000Biogenic Carbon Emission from Production of Waste from Renewablekg C020000Carbonation Carbon Emission from Combustion of Waste from Renewablekg C0200000Carbonation Carbon Emissionskg C02000000Carbonation Carbon Emissionskg C02000000Carbonation Carbon Emissionskg C02000000Carbonation Carbon Emissionskg C02000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Eotoxicity Fossil fuel depletion Nonrenewable fossil Nonrenewable nuclear	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhCTUhMJ surplusMJ, HHVMJ, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.12E+04 7.30E+02	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 4.96E-01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.59E+03 1.78E+03 1.78E+04 1.46E+04 8.91E+02
Renewable naterial resourceskgindexindexindexindexNat fresh waterng360E+013.62E-012.03E+003.83E+01Nonhazardous waste generatedkg004.59E-014.59E-01Haardous waste generatedkg0000Catchon emoval from Productkg Co20000Biogenic Carbon Removal from Productkg Co200000Biogenic Carbon Emission from Productkg Co200000Biogenic Carbon Emission from Productkg Co2000000Biogenic Carbon Emission from Productkg Co20000000Biogenic Carbon Emission from Productkg Co200000000Biogenic Carbon Emission from Productskg Co200000000Biogenic Carbon Emission from Productskg Co2000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Eotoxicity Fossil fuel depletion Nonrenewable fossil Nonrenewable fossil	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq kJ Surplus MJ, HHV MJ, HHV MJ, HHV MJ, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.32E+04 7.30E+02 3.25E+02	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01	Total 1.04E-04 1.27E+03 1.27E+03 3.41E+00 3.41E+00 1.36E-04 1.86E-04 2.65E+00 1.59E+03 1.59E+03 1.78E+03 1.78E+03 1.78E+04 8.91E+02 3.45E+02
National Action and Action a	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable fossil Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass)	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq kJ Surplus MJ, HHV MJ, HHV MJ, HHV MJ, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.32E+04 7.30E+02 3.25E+02	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 4.28E-02 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01	Total 1.04E-04 1.27E+03 1.27E+03 3.41E+00 3.41E+00 1.36E-04 1.86E-04 2.65E+00 1.59E+03 1.59E+03 1.78E+03 1.78E+03 1.78E+04 8.91E+02 3.45E+02
Net fresh waternm³360E+01362E-01203E+00383E+01Nonhazardous waste generatedkg00459E-01459E-01Hazardous waste generatedkg0000Biogenic Carbon Emission from Productkg CO20000Biogenic Carbon Emission from Productkg CO20000Biogenic Carbon Emission from Productkg CO200098E+0098E+00Biogenic Carbon Emission from Productkg CO200000Biogenic Carbon Emission from Productkg CO200000Biogenic Carbon Emission from Productkg CO2000000Biogenic Carbon Emission from Productkg CO20000000Biogenic Carbon Emission from Combustion of Waste from Remewalekg CO20000000Carbon Emission from Combustion of Waste from Non-Remewalekg CO2000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Nonrenewable fossil Nonrenewable fossil Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass) Material resources consumption	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq kJ surplus MJ, HHV MJ, HHV MJ, HHV MJ, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.32E+04 7.30E+02 3.25E+02 1.07E+02	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00 5.89E-01	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 8.63E+02	Total 1.04E-04 1.27E+03 1.27E+03 3.41E+00 1.36E-01 1.86E-04 1.86E-04 1.59E+03 1.59E+03 1.78E+03 1.78E+03 1.78E+03 1.46E+04 3.45E+02 3.45E+02 9.70E+02
Nonhazardou waste generatedNoNoNoNoHazardous waste generatedkg004.59E-014.59E-01Hazardous waste generatedkg0000Carbon emissions and removalskg <o2< td="">0000Biogenic Carbon Removal from Productkg<o2< td="">00000Biogenic Carbon Emission from Productkg<o2< td="">000000Biogenic Carbon Emission from Productkg<o2< td="">0000000Biogenic Carbon Emission from Productkg<o2< td="">00<</o2<></o2<></o2<></o2<></o2<>	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Nonrenewable fossil Nonrenewable fossil Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass) Material resources consumption	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh CTUh kg PM25 eq MJ, surplus MJ, HHV MJ, HHV MJ, HHV Kg, HHV Kg, HHV Kg, HHV	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 1.325E+02 3.25E+02 1.07E+02 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 4.28E-02 3.38E+02 3.38E+02 3.38E+02 1.67E+03 1.79E+03 1.85E+00 1.61E+00 5.89E-01 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 8.63E+02 9.62E+02	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 1.46E+04 3.415E+02 9.70E+02 9.70E+02
Hace of control Hagandous waste generatedNote of regionNote of regionHagandous waste generatedkg0000Carbon emissions and removalsBiogenic Carbon Removal from Productkg CO200000Biogenic Carbon Removal from Productkg CO2000000Biogenic Carbon Removal from Productkg CO20000000Biogenic Carbon Removal from Packagingkg CO200000000Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processeskg CO2000 <td>Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable nuclear Renewable (solar, wind, hydroelectric, and geothermal) Renewable material resources Renewable material resources</td> <td>Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh kg PM25 eq kJ Surplus MJ, HHV MJ, HHV MJ, HHV kg Kg Kg Kg Kg Kg Kg Kg Kg Kg</td> <td>A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.325E+02 1.07E+02 0 0 0</td> <td>A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00 1.61E+00 0 0 0</td> <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.62E+02 9.62E+02 2.46E+01</td> <td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.73E+03 1.46E+04 3.45E+02 9.70E+02 9.62E+02 2.46E+01</td>	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable nuclear Renewable (solar, wind, hydroelectric, and geothermal) Renewable material resources Renewable material resources	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh kg PM25 eq kJ Surplus MJ, HHV MJ, HHV MJ, HHV kg	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.325E+02 1.07E+02 0 0 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.10E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00 1.61E+00 0 0 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.62E+02 9.62E+02 2.46E+01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.73E+03 1.46E+04 3.45E+02 9.70E+02 9.62E+02 2.46E+01
Carbon emissions and removalskg CO2000Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Removal from Packagingkg CO20009.88E+009.88E+00Biogenic Carbon Emission from Packagingkg CO200000Biogenic Carbon Emission from Packagingkg CO200000Biogenic Carbon Emission from Packagingkg CO200000Carbon Emission from Combustion of Waste from Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Garcinogenics Respiratory effects Eotoxicity Fossil fuel depletion Nonrenewable fossil Nonrenewable nuclear Renewable (solar, wind, hydroelectric, and geothermal) Renewable (blomass) Material resources Nonrenewable material resources Net fresh water	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq MJ, HHV MJ, HHV MJ, HHV kg MJ, HHV kg MJ, HHV MJ	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.325E+02 3.25E+02 1.07E+02 0 3.60E+01	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 3.38E+02 1.79E+03 1.85E+00 1.85E+01 0 0. 0. 3.62E-01	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 8.63E+02 9.942E+01 2.13E+02 1.50E+01 2.03E+00	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.41E+02 3.45E+02 9.70E+02 9.70E+02 2.46E+01 3.83E+01
Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Emission from Productkg CO200000Biogenic Carbon Removal from Packagingkg CO20009.88E+009.88E+00Biogenic Carbon Emission from Combustion of Waste from Renewablekg CO200000Biogenic Carbon Emissionskg CO20000000Carbon Emission from Combustion of Waste from Non-Renewablekg CO2000000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO2000000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO2000000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable fossil Nonrenewable fossil Renewable (biomass) Material resources consumption Nonrenewable material resources Renewable material resources Nonrenewable material resources Nontrenewable material resources	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq MJ, HHV MJ, HHV MJ, HHV kg	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 3.25E+02 3.25E+02 0 0 3.60E+01 0 3.60E+01	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.39E+03 1.439E-02 1.67E-05 3.38E+02 2.53E+02 1.61E+00 1.61E+00 3.63E-01 0 3.62E-01 0 3.62E-01	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 2.03E+02 9.62E+02 2.46E+01 2.03E+00 4.59E-01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.36E-04 2.65E+00 1.59E+03 1.78E+03 3.45E+02 3.45E+02 9.70E+02 9.70E+02 3.83E+01 3.83E+01 4.59E-01
Biogenic Carbon Emission from Productkg CO20000Biogenic Carbon Removal from Packagingkg CO2009.88E+009.88E+00Biogenic Carbon Emission from Packagingkg CO200000Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processeskg CO200000Carbon Emission from Combustion of Waste from Renewable Carbon Emissions from Combustion of Waste from Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emission from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emission from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewable00000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable fossil Nonrenewable fossis Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass) Material resources Renewable material resources Nonrenewable material resources Nonhazardous waste generated	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq MJ, HHV MJ, HHV MJ, HHV kg	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 3.25E+02 3.25E+02 0 0 3.60E+01 0 3.60E+01	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.39E+03 1.439E-02 1.67E-05 3.38E+02 2.53E+02 1.61E+00 1.61E+00 3.63E-01 0 3.62E-01 0 3.62E-01	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 2.03E+02 9.62E+02 2.46E+01 2.03E+00 4.59E-01	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.45E+02 3.45E+02 9.70E+02 9.70E+02 3.83E+01 3.83E+01
Biogenic Carbon Removal from Packagingkg CO2009.88E+009.88E+00Biogenic Carbon Emission from Packagingkg CO200000Biogenic Carbon Emission from Combustion of Waste from Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO20000	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification Eutrophication Carcinogenics Respiratory effects Eotoxicity Total primary energy consumption Nonrenewable fossil Nonrenewable fossil Renewable (biomass) Material resources Nonrenewable material resources	Unitkg CFC-11 eqkg CO2 eqkg O3 eqkg SO2 eqkg N eqCTUhCTUhkg PM25 eqMJ, HHVMJ, HHVMJ, HHVkgkg Akg </td <td>A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.325E+02 3.25E+02 1.07E+02 0 3.60E+01 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00 5.89E-01 0 3.62E-01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 2.03E+02 9.62E+02 2.03E+00 4.59E-01 0</td> <td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.36E-04 2.65E+00 1.59E+03 1.78E+03 3.45E+02 3.45E+02 9.70E+02 9.62E+02 3.83E+01 3.83E+01 0</td>	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.325E+02 3.25E+02 1.07E+02 0 3.60E+01 0 0 0 0 0 0 0 0 0 0 0 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.61E+00 5.89E-01 0 3.62E-01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 2.03E+02 9.62E+02 2.03E+00 4.59E-01 0	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.36E-04 2.65E+00 1.59E+03 1.78E+03 3.45E+02 3.45E+02 9.70E+02 9.62E+02 3.83E+01 3.83E+01 0
HigherHighe	Parameter LCIA results (per 1,000kg) Ozone depletion Global warming Smog Acidification kicidification Carcinogenics Ropiratory effects Fossil fuel depletion Total primary energy consumption Nonrenewable fossil Nonrenewable fossil Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass) Material resources Renewable material resources Nonhazardous waste generated Lacardous waste generated Bogenic Carbon Removal from Product	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh CTUh kg PM25 eq MJ, HHV MJ, HHV kg	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 1.325E+02 3.25E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 3.38E+02 1.79E+03 1.85E+00 1.85E+01 0 0.	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.59E+02 1.80E+01 9.62E+02 9.63E+02 2.46E+01 2.03E+00 0	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.41E+02 3.45E+02 9.70E+02 9.62E+02 3.83E+01 3.83E+01 0
Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processeskg CO20000Calcination Carbon Emissionskg CO2000000Carbon Emissions from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000Carbon Emissions from Combustion of Waste from Non-Renewable Carbon Emissions from Combustion of Waste from Non-Renewablekg CO200000	Parameter LCIA results (per 1,000kg) Czone depletion Global warming Smog Atdification Eutrophication Carcinogenics Non-carcinogenics Respiratory effects Eotoxicity Fosal fuel depletion Total primary energy consumption Nonrenewable fosal Renewable (solar, wind, hydroelectric, and geothermal) Renewable (biomass) Material resources Ronrenewable material resources Nonrenewable material resources Nonrenewable material resources Renewable material resources Renewable material resources Autoriardous waste generated Horinazardous maste generated Giogenic Carbon Removal from Product Biogenic Carbon Emission from Product	Unit kg CFC-11 eq kg CO2 eq kg SO2 eq kg N eq CTUh CTUb kg PM25 eq MJ, HHV MJ, HHV kg k	A1 7.00E-05 9.57E+02 9.57E+02 4.18E+01 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 1.325E+02 3.25E+02 3.25E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 3.38E+02 1.79E+03 1.85E+00 1.61E+00 5.89E-01 0 3.62E-01 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.13E+02 1.80E+01 2.03E+02 9.62E+02 1.80E+01 2.03E+00 0 0 0 0 0	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.45E+02 3.45E+02 9.70E+02 9.70E+02 1.46E+04 3.45E+02 0 0 0 0 0
Sources Used in Production ProcessesKg CO2OOOOCalcination Carbon Emissionskg CO200000Carbon Removalskg CO200000Carbon Emissions from Combustion of Waste from Non-Renewablekg CO20000	Parameter LCIA results (per 1,000kg) Coone depletion Global warning Sinog Acidification Acidification Acinogenics Carcinogenics Respiratory effects Ecotoxicity Fossil fuel depletion Total primary energy consumption Nonrenewable fossil Nonrenewable nuclear Renewable (biomass) Acterial resources Nonrenewable material resources Renewable material resources Nonharardous waste generated Harardous waste generated Biogenic Carbon Removal from Product Biogenic Carbon Removal from Product	Unit kg CFC-11 eq kg CO2 eq kg SO2 eq kg N eq CTUh kg PM25 eq kg N eq MJ, HHV MJ, HHV kg kg <t< td=""><td>A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 3.25E+02 1.07E+02 0 3.60E+01 0 </td><td>A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.85E+01 0 3.38E-01 0 0 <!--</td--><td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00</td><td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00</td></td></t<>	A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 3.25E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.85E+01 0 3.38E-01 0 0 </td <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00</td> <td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00</td>	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00
Carbon Emissions from Combustion of Waste from Non-Renewable kg CO2 0 0 0 0	Parameter ICIA results (per 1,000kg) Ozone depletion Coone depletion	Unit kg CFC-11 eq kg CO2 eq kg SO2 eq kg N eq CTUh kg PM25 eq kg N eq MJ, HHV MJ, HHV kg kg <t< td=""><td>A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 3.25E+02 1.07E+02 0 3.60E+01 0 </td><td>A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.85E+01 0 3.38E-01 0 0 <!--</td--><td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00</td><td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00</td></td></t<>	A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 3.25E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.85E+01 0 3.38E-01 0 0 </td <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00</td> <td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00</td>	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 2.03E+02 9.62E+02 2.03E+00 0 0 0 9.88E+00	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.70E+02 0 0 9.83E+00
Carbon Emissions from Combustion of Waste from Non-Renewable	Parameter LCIA results (per 1,000kg) Coone depletion Global warming Sinog Audification kutophication Carcinogenics Ropinatory effects Ropinatory effects Fosil fuel depletion Nonrenewable fossil Nonrenewable fossil Ropinatory effects Ropinatory effects Nonrenewable fossil Nonrenewable fossil Nonrenewable fossil Ropinatory effects Reaveable (kiomass) Reaveable (kiomass) Ronrenewable fossil Nonrenewable fossil Ronrenewable material resources Ronrenewable material resources Nonrenewable material resources Nonrenewable material resources Ronrenewable materind resources	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg SO2 eq kg N eq CTUh kg PM25 eq kJ SUPM25 eq MJ, HHV MJ, HHV kg kg <t< td=""><td>A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 1.325E+02 1.07E+02 0 3.60E+01 0</td><td>A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.379E+03 1.85E+00 1.85E+00 1.61E+00 0 <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.59E+02 1.59E+02 1.80E+01 9.62E+02 2.46E+01 2.03E+00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.41E+04 9.62E+02 9.62E+02 9.70E+02 9.62E+02 0 0</td></td></t<>	A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 1.325E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 2.53E+02 1.379E+03 1.85E+00 1.85E+00 1.61E+00 0 <td>A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.59E+02 1.59E+02 1.80E+01 9.62E+02 2.46E+01 2.03E+00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.41E+04 9.62E+02 9.62E+02 9.70E+02 9.62E+02 0 0</td>	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.59E+02 1.59E+02 1.80E+01 9.62E+02 2.46E+01 2.03E+00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 3.41E+04 9.62E+02 9.62E+02 9.70E+02 9.62E+02 0 0
	Parameter LCIA results (per 1,000kg) Coone depletion Global warming Sinog Aidification Lutophication Actiongenics Non-carcinogenics Respiratory effects Fotal primary energy consumption Non-enerwable noclear	Unitkg CFC-11 eqkg CO2 eqkg SO2 eqkg SO2 eqCTUhCTUhCTUhMJ surplusMJ, HHVMJ, HHVKgMJ, HHVkg<	A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+03 1.325E+02 3.25E+02 3.25E+02 1.07E+02 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 4.39E-02 1.0E-07 1.67E-05 3.38E+02 3.38E+02 1.35E+02 1.79E+03 1.61E+00 1.63E+01 0 3.62E-01 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 9.62E+02 9.63E+02 2.13E+02 1.80E+01 0 9.63E+02 0	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 3.41E+01 7.41E-05 1.86E-04 1.86E+04 1.59E+03 1.78E+03 1.78E+03 9.62E+02 3.45E+02 9.70E+02 9.62E+02 1.383E+01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Parameter LCIA results (per 1,000kg) Stone depletion Global warming Global varming Smog Acidification kidrification Carcinogenics Rapiratory effects Forsil fuel depletion Total primary energy consumption Norenewable fossil Norenewable fossil Reawable (kiomass) Reawable (kiomass) Atterial resources Narenewable material resources Nariardous waste generated Actional removable form Product Rigenic Carbon Removal from Product Biogenic Carbon Emission from Product Biogenic Carbon Emissio	Unit kg CFC-11 eq kg CO2 eq kg O3 eq kg N eq cTUh kg PM25 eq kg J Ang A kg Ang A kg Ang A kg PM25 eq MJ, HHV MJ, HHV kg kg <	A1 7.00E-05 9.57E+02 9.57E+02 2.91E+00 3.36E-01 7.33E-05 1.65E-04 2.58E+00 1.16E+03 1.31E+03 1.31E+04 7.30E+02 3.25E+02 3.25E+02 1.07E+02 0 3.60E+01 0	A2 2.85E-05 1.20E+02 2.99E+00 2.26E-01 1.0E-07 1.0E-07 1.02E+02 3.38E+02 2.53E+02 1.79E+03 1.85E+00 1.85E+00 1.85E+01 0 3.62E-01 0	A3 5.01E-06 1.98E+02 3.43E+00 2.70E-01 1.17E-01 6.96E-07 4.51E-06 3.02E-02 9.94E+01 2.13E+02 1.60E+03 1.59E+02 1.80E+01 1.80E+01 9.62E+02 9.62E+02 2.03E+00 0 <t< td=""><td>Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.62E+02 0 0.</td></t<>	Total 1.04E-04 1.27E+03 4.83E+01 3.41E+00 7.41E-05 1.86E-04 2.65E+00 1.59E+03 1.78E+03 9.70E+02 9.70E+02 9.70E+02 9.62E+02 0 0.

Pyrocrete 40: LCIA results, resource use, output and waste flows, and carbon emissions & removals per declared unit

Parameter	Unit	A1	A2	A3	Total

abelayspoor <t< th=""><th>LCIA results (per 1,000kg)</th><th colspan="7">CIA results (per 1,000kg)</th></t<>	LCIA results (per 1,000kg)	CIA results (per 1,000kg)								
No. 1No. 1	Ozone depletion	kg CFC-11 eq	2.98E-05	2.16E-05	7.61E-06	5.90E-05				
ActivationAs Yog and SignalSigna	Global warming	kg CO ₂ eq	6.60E+02	9.07E+01	1.96E+02	9.47E+02				
An eqAn eqSeriesSeriesSeriesSeriesSeriesanonogenicsCrueSeriesSeriesSeriesSeriesSeriesSeriesanonogenicsCrueSeriesSeriesSeriesSeriesSeriesSeriesSeriesanonogenicsCrueSeriesS	Smog	kg O ₃ eq	3.39E+01	2.15E+00	7.00E+00	4.31E+01				
Normal priceNormal stateNormal stateNormal stateNormal stateReindragenicsCIU6456.05876.00876.00805.05ReindragenicsReindragenics876.00876.00876.00886.00866.00ReindragenicsReindragenics876.00876.00876.00876.00866.00ReindragenicsReindragenics876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00886.00866.00866.00ReindragenicsNithini876.00876.00886.00866.00866.00ReindragenicsNithini876.00866.00866.00866.00866.00ReindragenicsNithini876.00876.00866.00866.00866.00ReindragenicsNithini876.00876.00866.00866.00866.00ReindragenicsNithini876.00876.00866.00866.00866.00ReindragenicsNithini876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00876.00876.00876.00ReindragenicsNithini876.00876.00876.00876	Acidification	kg SO ₂ eq	2.13E+00	1.65E-01	4.75E-01	2.77E+00				
Non-cardingenicsCTUM6.06° 6.06°1276 0.068.07° 6.008.00° 6.06°Non-cardingenics140° 6.00°5.21° 0.206.80° 0.004.46° 0.00Non-cardingenics110° 0.002.07° 0.001.21° 0.002.09° 0.001.66° 0.00Seadoctiv110° 0.00120° 0.001.21° 0.002.41° 0.003.66° 0.003.66° 0.00Seadoctiv110° 0.00120° 0.001.21° 0.001.21° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.21° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.26° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.26° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.21° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.21° 0.003.66° 0.003.66° 0.00Seadoctiv111° 0.001.21° 0.001.21° 0.001.21° 0.003.66° 0.003.66° 0.00 <td>Eutrophication</td> <td>kg N eq</td> <td>2.82E-01</td> <td>3.31E-02</td> <td>1.66E-01</td> <td>4.82E-01</td>	Eutrophication	kg N eq	2.82E-01	3.31E-02	1.66E-01	4.82E-01				
non-no	Carcinogenics	CTUh	4.95E-05	8.31E-08	1.12E-06	5.07E-05				
Prior A control BoardPrior APrior A	Non-carcinogenics	CTUh	6.92E-05	1.27E-05	8.97E-06	9.09E-05				
Name Parameter Param	Respiratory effects	kg PM _{2.5} eq	3.13E-01	3.21E-02	6.88E-02	4.14E-01				
Nome result of the set o	Ecotoxicity	CTUe	7.01E+02	2.57E+02	2.19E+02	1.18E+03				
NumericationMi, Hivi43Er6313Er6319Fr-0376Er03Normerwable nuclearMi, Hivi600Er02140Er0018Er0128Er02Renewable (notes wind, hydroelectic, and geothermal)Mi, Hivi20Er0312Er0038Er0126Er03Renewable (holmssi)Mi, Hivi20Er0312Er0038Er0126Er03Renewable (holmssi)Mi, Hivi20Er0312Er0038Er0126Er03Renewable (holmssi)Mi, Hivi20Er03146Er0125Er0326Er03Renewable (holmssi)Mi, Hivi20Er0112Er0038Er0126Er03Renewable material resourceskg0020Er0336Er01Renewable material resourceskg0020Er0336Er01Norhazardous waste generatedkg0000Renewable fuels waste disposedkg0000Norhazardous waste generatedkg0000Norhazardous waste disposedkg00000Norhazardous waste disposedkg000000Norhazardous waste disposedkg0000000Norhazardous waste disposedkg000000000Norhazardous waste disposedkg0000000000000000 <td>Fossil fuel depletion</td> <td>MJ surplus</td> <td>4.79E+02</td> <td>1.92E+02</td> <td>2.44E+02</td> <td>9.16E+02</td>	Fossil fuel depletion	MJ surplus	4.79E+02	1.92E+02	2.44E+02	9.16E+02				
Non-renewable nuclearNi, HirlyRober-02Note-FromRober-02<	otal primary energy consumption									
And Renewable (solar, wind, hydroelectric, and geothema)NL HHV202E-03122E-0038E-0126E-0326E-03Renewable (joinnes)NL HHV202E-0344E-012.54E-0326E-0326E-03Material resources consumptionNL HHV00.4E-012.54E-0326E-03Material resources consumptionkg009.9E-029.9E-02Renewable material resourceskg003.0E-013.0E-01Renewable material resourceskg000.7E-013.0E-01Nonhazardous waste generatedkg00000Nonhazardous waste generatedkg00000Nonhazardous waste generatedkg00000Nonhazardous waste generatedkg00000Nonhazardous waste generatedkg00000Nonhazardous waste disposedkg00000Nonhazardous waste disposedkg00000Nonhazardous waste disposedkg000000Nonhazardous waste disposedkg0000000Nonhazardous waste disposedkg000000000Nonhazardous waste disposedkg0000000000 <t< td=""><td>Nonrenewable fossil</td><td>MJ, HHV</td><td>4.32E+03</td><td>1.36E+03</td><td>1.97E+03</td><td>7.65E+03</td></t<>	Nonrenewable fossil	MJ, HHV	4.32E+03	1.36E+03	1.97E+03	7.65E+03				
Name energy and the second seco	Nonrenewable nuclear	MJ, HHV	6.00E+02	1.40E+00	1.86E+02	7.88E+02				
Marcial resources consumptionkg nlocal <th local<="" td=""><td>Renewable (solar, wind, hydroelectric, and geothermal)</td><td>MJ, HHV</td><td>2.02E+03</td><td>1.22E+00</td><td>3.88E+01</td><td>2.06E+03</td></th>	<td>Renewable (solar, wind, hydroelectric, and geothermal)</td> <td>MJ, HHV</td> <td>2.02E+03</td> <td>1.22E+00</td> <td>3.88E+01</td> <td>2.06E+03</td>	Renewable (solar, wind, hydroelectric, and geothermal)	MJ, HHV	2.02E+03	1.22E+00	3.88E+01	2.06E+03			
Nonnenewable material resourceskg009.94E-029.94E-02Renewable material resourceskg007.00E-017.00E-01Net fresh waterm³2.47E+014.8E-019.73E+005.49E+01Nonhazardous waste generatedkg0000Hazardous waste generatedkg0000Obuptationary dous waste generatedkg0000Hazardous waste generatedkg0000Obuptationary dous waste disposedkg0000Non-hazardous waste disposedkg0.0E-014.42E-041.82E-026.88E-01High-level radioactive waste, conditioned, to final repositorykg0.0E-040.0E-055.4E-04Components for re-usekg0.2E-040.0E-055.4E-040Materials for recyclingkg0.2E-040.0E0.0E-050.0E-05Atterials for recyclingkg0.10.10.10.10.1Components for re-usekg0.2E-040.0E0.0E-050.0E-05Exported energykg0.10.10.10.10.1Exported energykg0.10.10.10.10.1Exported energykg0.10.10.10.10.1Exported energykg0.10.10.10.10.1Exported energykg0.10.10.10.1 <t< td=""><td>Renewable (biomass)</td><td>MJ, HHV</td><td>9.26E+01</td><td>4.46E-01</td><td>2.54E+03</td><td>2.63E+03</td></t<>	Renewable (biomass)	MJ, HHV	9.26E+01	4.46E-01	2.54E+03	2.63E+03				
And controlAnd BarFor the seriesAnd the seri	laterial resources consumption									
Normal Additional	Nonrenewable material resources	kg	0	0	9.94E+02	9.94E+02				
And a control Name<	Renewable material resources	kg	0	0	7.30E+01	7.30E+01				
Hackbork in a price of the second price of the sec	Net fresh water	m ³	2.47E+01	4.18E-01	9.73E+00	3.49E+01				
Dutput flows and waste category indicators Hazardous waste disposed kg 0 0 0 Non-hazardous waste disposed kg 0 0 576E-01 576E-01 High-level radioactive waste, conditioned, to final repository kg 670E-01 442E-04 182E-02 688E-01 Intermediate- and low-level radioactive waste, conditioned, to final repository kg 303E-04 190E-04 609E-05 554E-04 Components for re-use kg 0 0 0 0 0 Materials for recycling kg 0 0 0 0 0 0 Exported energy kg 0 <td< td=""><td>Nonhazardous waste generated</td><td>kg</td><td>0</td><td>0</td><td>5.76E-01</td><td>5.76E-01</td></td<>	Nonhazardous waste generated	kg	0	0	5.76E-01	5.76E-01				
Hazardous waste disposedkg0000Non-hazardous waste disposedkg00576E-01576E-01High-level radioactive waste, conditioned, to final repositorykg6.70E-014.42E-041.82E-026.88E-01Intermediate- and low-level radioactive waste, conditioned, to finalkg3.03E-041.90E-046.09E-055.54E-04Components for re-usekg000000Materials for nercyclingkg00000Materials for energy recoverykg000000Kyported energyM, HHV0000000Stapenic Carbon Removal from Productkg C0200000000Biogenic Carbon Removal from Productkg C02000	Hazardous waste generated	kg	0	0	0	0				
Non-hazardous waste disposed kg l l l <th< td=""><td colspan="9">utput flows and waste category indicators</td></th<>	utput flows and waste category indicators									
Name report <b< td=""><td>Hazardous waste disposed</td><td>kg</td><td>0</td><td>0</td><td>0</td><td>0</td></b<>	Hazardous waste disposed	kg	0	0	0	0				
name repositorname<	Non-hazardous waste disposed	kg	0	0	5.76E-01	5.76E-01				
repositorykgSUSECUISECUSUSECUSUSECUSUSECUComponents for re-usekg0000Materials for recyclingkg0000Materials for energy recoverykg0000Exported energyMJ, HHV00000Exported energykg CO200000Singenic Carbon Removal from Productkg CO200000Singenic Carbon Removal from Productkg CO2000000Singenic Carbon Removal from Productkg CO20000000Singenic Carbon Removal from Productkg CO200000000Singenic Carbon Removal from Productkg CO2000000000Singenic Carbon Removal from Productkg CO2000 <td>High-level radioactive waste, conditioned, to final repository</td> <td>kg</td> <td>6.70E-01</td> <td>4.42E-04</td> <td>1.82E-02</td> <td>6.88E-01</td>	High-level radioactive waste, conditioned, to final repository	kg	6.70E-01	4.42E-04	1.82E-02	6.88E-01				
Ng Materials for recyclingNg RgOOOOMaterials for recyclingkg00000Materials for energy recoverykg00000Exported energyMJ, HHV000000Carbon emissions and removalskg CO200000Biogenic Carbon Removal from Productkg CO2000000Biogenic Carbon Removal from Productkg CO20000000Biogenic Carbon Removal from Productkg CO20000000Biogenic Carbon Removal from Packagingkg CO20000000Biogenic Carbon Removal from Packagingkg CO20000000Biogenic Carbon Removal from Packagingkg CO200000000Biogenic Carbon Removal from Packagingkg CO2kg CO20000000000	Intermediate- and low-level radioactive waste, conditioned, to final repository	kg	3.03E-04	1.90E-04	6.09E-05	5.54E-04				
Materials for energy recoverykg0000Exported energyMJ, HHV00000Carbon emissions and removalsKg CO200000Biogenic Carbon Removal from Productkg CO2000000Biogenic Carbon Removal from Productkg CO20000000Biogenic Carbon Removal from Productkg CO20000000Biogenic Carbon Removal from Productkg CO200000000Biogenic Carbon Removal from Productkg CO200	Components for re-use	kg	0	0	0	0				
Exported energyMJ, HHV0000Carbon emissions and removalskg CO20000Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Removal from Productkg CO20000Biogenic Carbon Removal from Packagingkg CO20<	Materials for recycling	kg	0	0	0	0				
Carbon emissions and removals kg CO2 0 0 0 Biogenic Carbon Removal from Product kg CO2 0 0 0 0 Biogenic Carbon Removal from Product kg CO2 0 0 0 0 0 Biogenic Carbon Removal from Product kg CO2 0 0 0 0 0 Biogenic Carbon Removal from Product kg CO2 0 0 0 0 0	Materials for energy recovery	kg	0	0	0	0				
Biogenic Carbon Removal from Product kg CO2 0 0 0 0 Biogenic Carbon Emission from Product kg CO2 0 0 0 0 0 Biogenic Carbon Removal from Packaging kg CO2 0 0 0 0 0	Exported energy	MJ, HHV	0	0	0	0				
Biogenic Carbon Removal from Packaging kg CO2 O O Size+01 kg CO2 0 0 0 0	Carbon emissions and removals									
Biogenic Carbon Removal from Packaging kg CO ₂ 0 0 3.22E+01 3.22E+01	Biogenic Carbon Removal from Product	kg CO ₂	0	0	0	0				
	Biogenic Carbon Emission from Product	kg CO ₂	0	0	0	0				
Biogenic Carbon Emission from Packaging kg CO ₂ 0 0 0 0	Biogenic Carbon Removal from Packaging	kg CO ₂	0	0	3.22E+01	3.22E+01				
	Biogenic Carbon Emission from Packaging	kg CO ₂	0	0	0	0				
	Biogenic Carbon Emission from Combustion of Waste from Renewable Sources Used in Production Processes	kg CO ₂	0	0	0	0				
Calcination Carbon Emissions kg CO ₂ 0 0 0 0 0	Calcination Carbon Emissions	kg CO ₂	0	0	0	0				
Carbonation Carbon Removals kg CO ₂ 0 0 0 0 0	Carbonation Carbon Removals	kg CO ₂	0	0	0	0				
	Carbon Emissions from Combustion of Waste from Non-Renewable Sources used in Production Processes	kg CO ₂	0	0	0	0				