



## Environmental Product Declaration



In accordance with ISO 14025 and Product Category Rules for Absorbent Hygiene Products

# TENA Bed



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<b>Programme operator:</b>	EPD International AB

# Essity is a leading global hygiene and health company

Essity is a leading global hygiene and health company that develops, produces, and sells personal care (baby care, feminine care, incontinence products, and medical solutions), consumer tissue, and professional hygiene products and solutions.

We are dedicated to improving well-being through leading hygiene and health solutions. Sales are conducted in approximately 150 countries under many strong brands, including the leading global brands TENA and Tork, as well as Leukoplast, Libero, Libresse, Lotus, Nosotras, Saba, Tempo, Vinda, and Zewa.

Essity has about 46 000 employees and net sales in 2019 amounted to SEK 129 bn (EUR 12.2 bn). The business operations are based on a sustainable business model with a focus on value creation for people and nature.

The company has its headquarters in Stockholm, Sweden, and is listed on Nasdaq Stockholm. Essity breaks barriers to well-being and contributes to a healthy, sustainable, and circular society. More information at [www.essity.com](http://www.essity.com).

## TENA is a part of Essity

Through our TENA brand, we offer a broad range of incontinence products and services. The clear purpose of this offering is to care for people, improve their quality of life, and help them live with dignity and confidence.

For our institutional customers, such as nursing homes, it also means reducing costs while increasing efficiency and quality of care. This is done through a combination of high-quality products and qualified advisory services that simplify handling procedures for care providers.

Since incontinence is often surrounded by a social taboo, enhancing quality of life also means promoting an open dialogue to break down the stigma. So, in addition to providing products that improve health and hygiene, we're working hard to raise awareness, provide training and global forums, and drive high-level dialogues around the world.

At TENA we're continually innovating new products that are increasingly discrete, comfortable, effective, and easy to use, while also reducing our carbon footprint. To make a better mark – for people, and for the planet.



## TENA assortment

<b>TENA Female Liners &amp; Pads</b>	A drier, safer, and more comfortable product than ordinary menstrual towel. The liners and pads give triple protection against leaks, odour, and moisture. The products are body shaped for comfort, protection, and discretion.
<b>TENA Men</b>	TENA Men are discreet and safe protection for men who experience urine leakage. Specially developed for men who want discretion and continue to live an active life.
<b>TENA Pants &amp; Underwear</b>	Close body fit for security and confidence. High performance products that are as easy to put on as underwear. TENA Pants & Underwear are available in a range of absorbency levels and sizes.
<b>TENA Flex</b>	A belted product with added absorbency that allows for easier, more ergonomic changing and with a comfortable, discreet fit. TENA Flex provides anatomically shaped protection with double absorption cores for leakage security.
<b>TENA Comfort TENA Rectangular</b>	The pad is designed to provide incontinence protection for skin health and leakage security. Available in a range of absorbency levels and specially designed to be worn with TENA fixation pants. The products are suitable for all types of incontinence.
<b>TENA Slip</b>	All-in-one incontinence products are designed to provide protection for healthy skin and high leakage security. The products are available in a range of sizes and absorbency levels and are suitable for all types of incontinence.
<b>TENA Fix</b>	A seamless, washable and reusable fixation pant supporting leakage security. Ensures that TENA Comfort and TENA Rectangular pads stay securely in place. Soft and elastic material provides comfort. Can be washed several times without losing shape.
<b>TENA Bed</b>	Provides protection for beds and chairs against accidental urine loss and during hygiene procedures. Dermatologically tested so it is gentle to the skin. Available in a range of sizes and absorbency levels.

## Baby diaper assortment

<b>Libero assortment</b>	<p>The Libero assortment fulfils the demands for premium-brand baby diaper and the diapers have an absorption capacity/function that cover different steps of the baby's diaper needs. The diapers consist of an absorbent core, anti-leakage barrier, fastening system, and a back sheet. The assortment is uni-sex.</p> <p>Libero Newborn, Comfort, UP&amp;GO, Touch, and Sleep Tight are all labelled with the Nordic Swan.</p>
<b>DryKids</b>	DryKids assortment of breathable diapers for children quickly absorb urine and help to keep the child's skin dry and healthy.

This environmental declaration covers the following products		Article number	Dimension (mm)	Weight $\pm 5\%$ (g)
1	TENA Bed Original 60 x 60	770048	600 x 600	37
2	TENA Bed Original 60 x 90	770049	900 x 600	56
3	TENA Bed Normal 60 x 60	770044 770045	600 x 600	40
4	TENA Bed Normal 60 x 90	770046 770047	900 x 600	61
5	TENA Bed Plus 60 x 40	770118 770132 770114*	400 x 600	32
6	TENA Bed Plus 60 x 60	770119	600 x 600	50
7	TENA Bed Plus 60 x 75	770121	750 x 600	63
8	TENA Bed Plus 60 x 90	770120	900 x 600	77
9	TENA Bed Plus Secure Zone 60x60	770100 770109*	600 x 600	50
10	TENA Bed Plus Secure Zone 60x75	770131*	750 x 600	64
11	TENA Bed Plus Secure Zone 60x90	770104 770111*	900 x 600	77
12	TENA Bed Super 60 x 75	772531 772534	750 x 600	75
13	TENA Bed Super 60 x 90	772532	900 x 600	91
14	TENA Bed Super Secure Zone 60x90	770210*	900 x 600	91
15	TENA Bed 80 x 180 Secure Zone	771102 771103*	1800 x 800	118
16	Traversa Flufsan 80 x 180	360906	1800 x 800	85

\* Article approved according to the Nordic Ecolabel License 3023 0032, or 3023 0069



## The way we work

We assess the environmental impact of our products using a full life cycle approach, beginning with product design, through to manufacturing, transport, use, and disposal.

**RESPONSIBLE SOURCING** involves seeking high-quality raw materials that are safe from both a social and environmental perspective. The company's suppliers adhere to strict demands in Essity's Global Supplier Standard



**RESOURCE EFFICIENT PRODUCTION** is efficient use of resources, and the continuous reduction of energy and waste. Essity's objective is to develop products and services for a sustainable and circular society. The TENA production units are working with the management systems ISO 9001, ISO 14001 and OHSAS 18001.

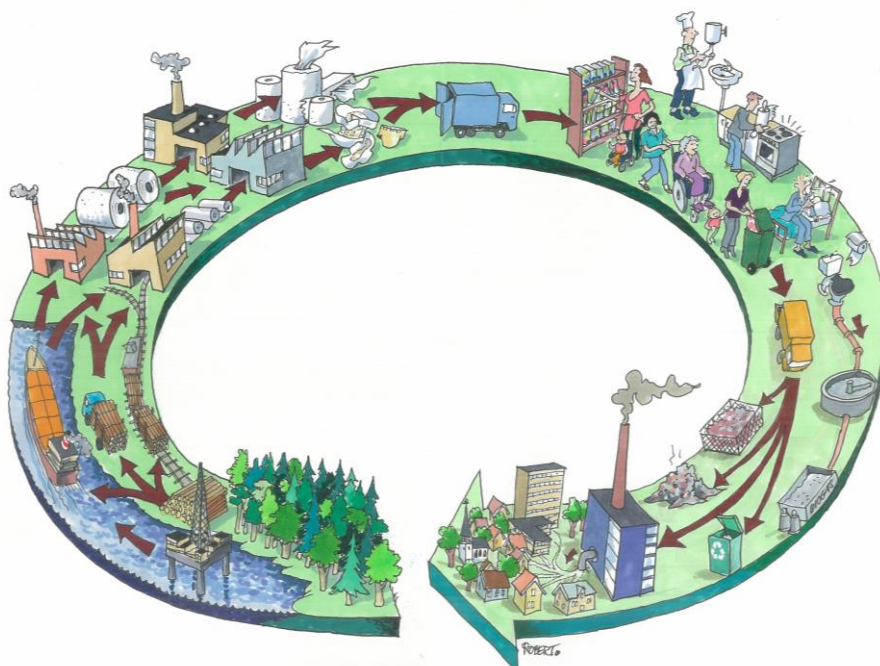


**SUSTAINABLE SOLUTIONS** are safe and environmentally sound innovations for hygiene products and services, based on customer and consumer insights, enabling us to meet their needs in daily life.



## Environmental performance of our products

The information presented in an environmental product declaration is obtained from a Life Cycle Assessment (LCA), which is a study of the potential environmental impact of a product throughout its life cycle, including production of raw materials and products, use of the product, after use processes, and transports.



## Environmental achievements

The following carbon footprint reductions for different TENA product groups have been achieved by working in a structured way to continually improve performance and efficiency.

Product	Carbon footprint reduction Year 2008 – 2019
TENA Flex	- 18 %
TENA Female Liners & Pads	- 33 %
TENA Men	- 20 %
TENA Pants & Underwear	- 33 %
TENA Slip	- 20 %
TENA Comfort	- 19 %
TENA Bed	- 11 %

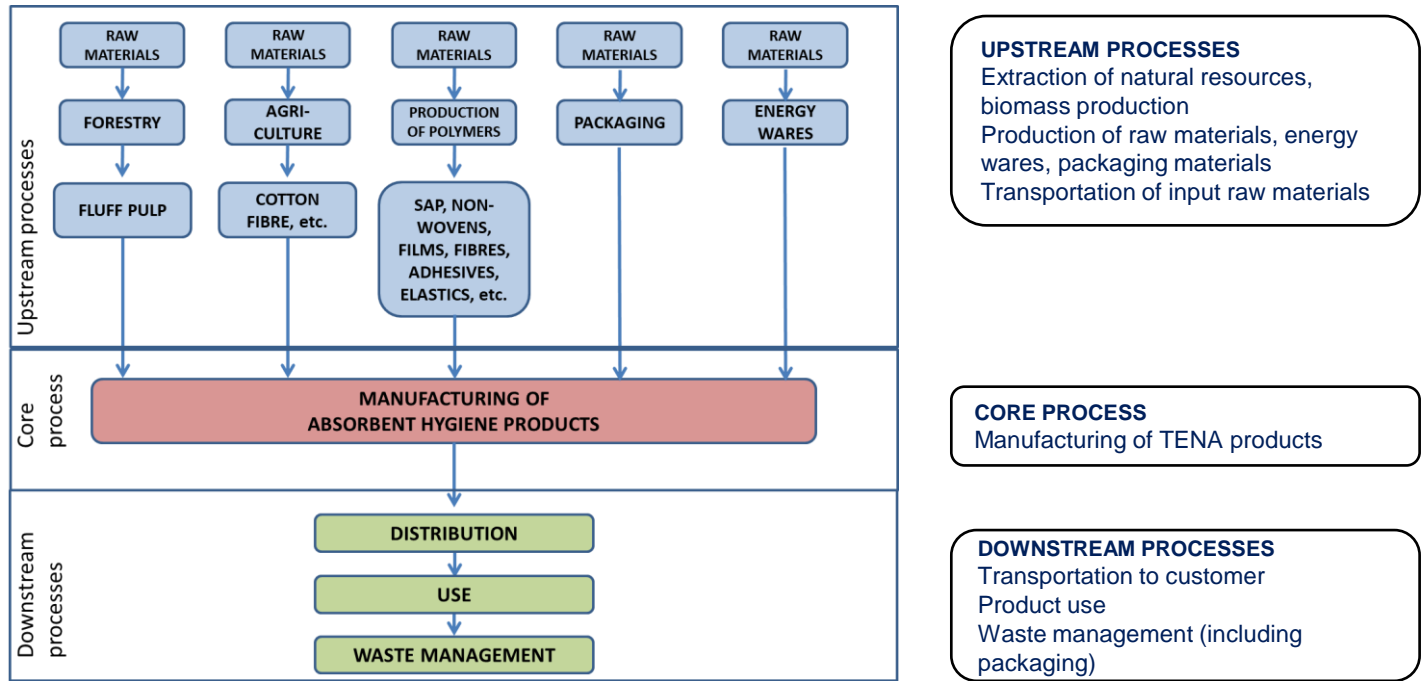
*The LCA is conducted by Essity and verified by IVL, Swedish Environmental Research Institute Ltd, 2019. The carbon footprint reductions in Europe between 2008-2019 for TENA products are based on Life Cycle Assessments.*

## Production of TENA products



TENA products are made using high-quality materials, with strict requirements on product safety. The materials used are cellulose fibers from certified forestry and purpose-specific plastic materials. Production takes place at high-technology facilities with stringent hygienic and product safety standards that guarantee product quality and ensure users' safety and well-being.

# Life cycle of an absorbent hygiene product



## LIFE CYCLE DESCRIPTION

The life cycle of a TENA product starts with the **UPSTREAM PROCESSES**: These include extraction of natural resources for the different raw materials as well as fuel production for both heat and power generation. The production of the raw materials, such as fluff pulp and superabsorbent polymers for the absorbent core, nonwovens for inner lining, and plastic films for the outer shell are part of the upstream processes. Transports of raw materials to the manufacturing

The **CORE PROCESS**, the actual manufacturing of the different TENA products, is a highly efficient converting process where the different materials are put together with high precision, which results in well performing products with an efficient use of resources thanks to innovative design and scientific solutions. The core process also includes handling of production waste.

In the **DOWNSTREAM PROCESSES**, the products are transported to the customer either in the homecare segment or for institutional users. The use phase as such has no environmental impact and gives therefore no contribution to the calculations. The final step is the waste management, also including handling of packaging waste.

The life cycle calculations for TENA products in this EPD are “cradle-to-grave”

## Parameters in the declaration

FUNCTIONAL UNIT	The functional unit is according to PCR 2011:14, one product. In addition, the result is reported for a standard number of products used for one day, which is defined as four products.
CALCULATION OF GLOBAL WARMING POTENTIAL	Both emissions to and removals of CO <sub>2</sub> from the atmosphere, originating from both fossil and biogenic sources, are accounted for with a time interval of 100 years. Removal of carbon dioxide into growing trees and emissions of carbon dioxide corresponding to the content of biogenic carbon in the product is reported as CO <sub>2</sub> removals and biogenic CO <sub>2</sub> emissions, respectively.
WASTE MANAGEMENT SCENARIO	<p>The waste management is calculated based on the sales of TENA products on the EU market, with an average waste handling for EU 27 (EUROSTAT 2019) giving a scenario with 55 % incineration and 45 % landfill.</p> <p>Impacts of incineration process with energy recovery are attributed 50 % to the product and 50 % to the energy recovery process. Benefits and credits of energy recovery are attributed 100 % to energy recovery (outside system boundaries).</p> <p>Biogenic CO<sub>2</sub> associated with waste management, is reported.</p>
REPRESENTATIVE PRODUCT	A representative product is chosen when there are minor variations for the same product, such as technology and packaging. In the EPD, the representation of such different TENA products is done by a representative product, i.e. more than one product can be represented by the same calculation. The representative product always has the highest environmental impact, and hence a conservative approach is taken for the results. However, the variations within the different tiered products is not more than +/- 10 %, which follows the General Programme Instructions.
LIST OF MATERIALS	The materials listed in the composition table are combined into three groups in order to keep a level of confidentiality. A general list of content is also shown. For the life cycle calculations each product's particular specification have been used.
MANUFACTURING SITES	The TENA assortment is produced in the following factories; Falkenberg/ Sweden Gennep/Netherlands, Olawa/Poland, Gemerská Hôrka/Slovakia, Hoogezand/Netherlands, Kartepe/Turkey, Drumondville/Canada. All production sites are certified with management systems for quality, environment and health and safety, ISO 9001, ISO 14001 and OHSAS 18001.
GEOGRAPHICAL SCOPE	This EPD covers TENA products sold in Europe.
VALIDITY OF DATA	The most important raw materials in the products, pulp and SAP, are mainly data from 2016 - 2018. Supplier data for raw materials like film and nonwoven as well as other, minor materials are mainly from 2009-2016. Manufacturing data are from 2019. Article specifications are from 2020, with a few specifications from 2019.
THOUSAND SEPARATOR AND DECIMAL MARK	SI style (French version): 1 234,56; i.e. comma is used as decimal mark. Number of value digits: 3
PACKAGING	The packaging consists of a consumer pack, a polyethylene plastic bag, and transport packaging of corrugated board boxes, i.e. made of renewable fibers. A few articles of TENA Men and TENA Female Pads and Liners have a consumer pack of carton from renewable fibers.

## Additional environmental information



**WOOD PULP:** Essity works with a strict sourcing policy and only use fibers from known sources. The suppliers are expected to continually increase the proportion of certified fibers from recognized certification schemes.

**Certifications:** All fluff pulp suppliers for TENA products are FSC Chain-of-Custody certified and all pulp meet as a minimum the FSC controlled wood standard, in addition to other forest certification schemes that may be applied.

**ECF pulp:** All pulps used for TENA products are produced in Elementary Chlorine Free (ECF) processes.

**PLASTIC MATERIALS:** All the plastic materials used in TENA products for the European market do not intentionally contain lead, hexavalent chrome and related compounds, phthalates, acrylamide, antimony, brominated flame retardants, or organotin compounds, except in form of impurities. The additives used in plastics comply with the EC Regulations No. 1272/2008 and No. 1907/2006 (REACH), and their subsequent amendments.

Lotions, creams and/or deodorant substances are not added to the products. Inks or dyes that may be present are used for functional requirements and not for aesthetic-commercial purposes.

**PACKAGING:** Packaging meets the requirements of Annex F of part IV, Legislative Decree 152/2006. Corrugated board boxes for transport packaging are made of at least 80 % recycled fibers

## Update of TENA EPDs


The TENA EPDs were first published in 2015, and the number of articles for the TENA product groups have increased over the years. All EPDs were valid until October 2020 and are now updated with new calculations for all articles. The new results show in general improved environmental performance of the products. This corresponds well with actual product development for the TENA assortment. There is usually less materials used for updated product specifications, because of new and better product design, and improved materials. Also improved production by suppliers and in TENA manufacturing sites adds to the results presented in the EPDs.

# Environmental Product Declaration Verification & Programme Information

The calculations for the environmental product declaration (EPD) are performed according to ISO 14040 and ISO 14044, ISO 14025.

EPD's within the same product category but from different programmes may not be comparable.



Product category rules (PCR): Absorbent Hygiene Products, 2011:14, version 3.01, UN CPC 32193 General Programme Instructions ver.3.01	
Programme operator: EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden e-mail: <a href="mailto:info@environdec.com">info@environdec.com</a>	
Product Category Rules review was conducted by: The Technical Committee of the International EPD® System. Chair: Massimo Marino Contact via <a href="mailto:info@environdec.com">info@environdec.com</a>	
Independent verification of the declaration and data, according to ISO 14025:2006: <input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification	
Procedure for follow up of data during EPD validity involves third party verifier: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<p>Third party verifier: Håkan Stripple at IVL Swedish Environmental Research Institute, P.O. Box 53021, SE-400 14 Gothenburg, Sweden <a href="mailto:Hakan.Stripple@IVL.se">Hakan.Stripple@IVL.se</a></p> <p>Accredited by : Håkan Stripple is an independent individual verifier in the International EPD® System.</p>	
Declaration owner: Essity Hygiene & Health AB SE-405 03 GÖTEBORG <a href="mailto:anna-karin.gunnnergren@essity.com">Anna-Karin Gunnergren, anna-karin.gunnnergren@essity.com</a> The EPD owner has the sole ownership, liability, and responsibility for the EPD	

## TENA Bed – environmental performance

Provides protection for beds and chairs against accidental urine loss and during hygiene procedures.  
Dermatologically tested so it is gentle to the skin.  
Available in a range of sizes and absorbency levels.

### Composition for TENA Bed (all articles) Specific data is used in all calculations.

Pulp	61 - 79 %
Polymers	2 - 4 %
Plastics	19 - 36 %

### Content declaration

Calcium carbonate
Cellulose pulp
Glue
Ink
Polyethylene
Polypropylene
Super absorbent (part of assortment)
Synthetic elastics





# 1. TENA Bed Original 60 x 60 770048

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,051	0,011	0,023	0,085
	Biogenic	kg CO <sub>2</sub> eq.	-0,043	0,000	0,014	-0,029
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00005	0,00007	0,00004	0,00016
	Total	kg CO <sub>2</sub> eq.	0,008	0,011	0,037	0,056
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,96E-04	3,79E-05	1,55E-05	3,49E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	5,94E-05	4,33E-06	1,44E-05	7,82E-05
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,97E-04	1,95E-05	1,36E-05	2,30E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,75E-08	3,69E-09	1,30E-10	4,13E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,09E+00	1,41E-01	4,89E-02	1,28E+00
Water scarcity potential		m <sup>3</sup> eq.	1,80E+00	3,85E-03	2,20E-03	1,81E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	8,79E-01	8,14E-02	3,08E-03	9,63E-01
	Used as raw materials	MJ, net calorific value	4,45E-01	(N/A)	(N/A)	4,45E-01
	Total	MJ, net calorific value	1,32E+00	8,14E-02	3,08E-03	1,41E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,19E+00	1,83E-01	5,12E-02	1,42E+00
	Used as raw materials	MJ, net calorific value	4,23E-01	1,63E-04	3,23E-03	4,26E-01
	Total	MJ, net calorific value	1,61E+00	1,83E-01	5,44E-02	1,85E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,14E-03	8,88E-04	7,98E-05	3,11E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	4,81E-07	1,39E-10	2,17E-09	4,83E-07
Non-hazardous waste disposed		kg	2,39E-04	2,14E-04	4,01E-03	4,46E-03
Radioactive waste disposed		kg	1,06E-05	1,65E-05	3,41E-07	2,75E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,90E-02	1,90E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 1. TENA Bed Original 60 x 60 770048

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,203	0,045	0,092	0,340
	Biogenic	kg CO <sub>2</sub> eq.	-0,172	0,000	0,056	-0,116
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00018	0,00027	0,00018	0,00064
	Total	kg CO <sub>2</sub> eq.	0,031	0,045	0,148	0,225
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,18E-03	1,52E-04	6,18E-05	1,40E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	2,38E-04	1,73E-05	5,78E-05	3,13E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	7,89E-04	7,80E-05	5,46E-05	9,21E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	1,50E-07	1,47E-08	5,22E-10	1,65E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	4,34E+00	5,65E-01	1,96E-01	5,10E+00
Water scarcity potential		m <sup>3</sup> eq.	7,22E+00	1,54E-02	8,79E-03	7,24E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	3,51E+00	3,25E-01	1,23E-02	3,85E+00
	Used as raw materials	MJ, net calorific value	1,78E+00	(N/A)	(N/A)	1,78E+00
	Total	MJ, net calorific value	5,29E+00	3,25E-01	1,23E-02	5,63E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	4,74E+00	7,32E-01	2,05E-01	5,68E+00
	Used as raw materials	MJ, net calorific value	1,69E+00	6,54E-04	1,29E-02	1,70E+00
	Total	MJ, net calorific value	6,43E+00	7,33E-01	2,18E-01	7,38E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	8,56E-03	3,55E-03	3,19E-04	1,24E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	1,92E-06	5,55E-10	8,67E-09	1,93E-06
Non-hazardous waste disposed		kg	9,57E-04	8,55E-04	1,60E-02	1,78E-02
Radioactive waste disposed		kg	4,26E-05	6,61E-05	1,36E-06	1,10E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	7,59E-02	7,59E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 2. TENA Bed Original 60 x 90 770049

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,077	0,017	0,035	0,129
	Biogenic	kg CO <sub>2</sub> eq.	-0,065	0,000	0,021	-0,044
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00007	0,00010	0,00007	0,00024
	Total	kg CO <sub>2</sub> eq.	0,012	0,017	0,056	0,085
Acidification potential (AP)		kg SO <sub>2</sub> eq.	4,48E-04	5,78E-05	2,32E-05	5,29E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	9,01E-05	6,60E-06	2,19E-05	1,19E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,98E-04	2,97E-05	2,06E-05	3,49E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	5,66E-08	5,62E-09	2,36E-10	6,24E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,64E+00	2,15E-01	7,31E-02	1,93E+00
Water scarcity potential		m <sup>3</sup> eq.	2,72E+00	5,87E-03	3,35E-03	2,72E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,33E+00	1,24E-01	4,62E-03	1,46E+00
	Used as raw materials	MJ, net calorific value	6,76E-01	(N/A)	(N/A)	6,76E-01
	Total	MJ, net calorific value	2,01E+00	1,24E-01	4,62E-03	2,14E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,80E+00	2,79E-01	7,64E-02	2,15E+00
	Used as raw materials	MJ, net calorific value	6,42E-01	2,49E-04	4,89E-03	6,47E-01
	Total	MJ, net calorific value	2,44E+00	2,79E-01	8,13E-02	2,80E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	3,23E-03	1,35E-03	1,21E-04	4,71E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	6,72E-07	2,12E-10	3,22E-09	6,75E-07
Non-hazardous waste disposed		kg	3,63E-04	3,26E-04	6,15E-03	6,84E-03
Radioactive waste disposed		kg	1,62E-05	2,52E-05	5,17E-07	4,20E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	2,90E-02	2,90E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 2. TENA Bed Original 60 x 90 770049

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,307	0,069	0,140	0,515
	Biogenic	kg CO <sub>2</sub> eq.	-0,261	0,000	0,085	-0,176
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00028	0,00042	0,00026	0,00096
	Total	kg CO <sub>2</sub> eq.	0,046	0,069	0,225	0,340
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,79E-03	2,31E-04	9,28E-05	2,12E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	3,60E-04	2,64E-05	8,75E-05	4,74E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,19E-03	1,19E-04	8,25E-05	1,40E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,26E-07	2,25E-08	9,45E-10	2,50E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	6,58E+00	8,61E-01	2,92E-01	7,73E+00
Water scarcity potential		m <sup>3</sup> eq.	1,09E+01	2,35E-02	1,34E-02	1,09E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	5,33E+00	4,96E-01	1,85E-02	5,84E+00
	Used as raw materials	MJ, net calorific value	2,70E+00	(N/A)	(N/A)	2,70E+00
	Total	MJ, net calorific value	8,03E+00	4,96E-01	1,85E-02	8,55E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	7,18E+00	1,12E+00	3,06E-01	8,60E+00
	Used as raw materials	MJ, net calorific value	2,57E+00	9,96E-04	1,96E-02	2,59E+00
	Total	MJ, net calorific value	9,75E+00	1,12E+00	3,25E-01	1,12E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,29E-02	5,42E-03	4,86E-04	1,88E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	2,69E-06	8,47E-10	1,29E-08	2,70E-06
Non-hazardous waste disposed	kg	1,45E-03	1,30E-03	2,46E-02	2,74E-02
Radioactive waste disposed	kg	6,50E-05	1,01E-04	2,07E-06	1,68E-04
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	1,16E-01	1,16E-01
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

### 3. TENA Bed Normal 60 x 60 770044 & 770045

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,055	0,012	0,025	0,092
	Biogenic	kg CO <sub>2</sub> eq.	-0,048	0,000	0,016	-0,032
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00005	0,00007	0,00005	0,00017
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,007	0,012	0,041	0,060
Acidification potential (AP)		kg SO <sub>2</sub> eq.	3,23E-04	4,13E-05	1,69E-05	3,81E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	6,58E-05	4,71E-06	1,60E-05	8,65E-05
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,15E-04	2,12E-05	1,51E-05	2,52E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	4,17E-08	4,01E-09	2,02E-10	4,59E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,16E+00	1,54E-01	5,35E-02	1,37E+00
Water scarcity potential		m <sup>3</sup> eq.	1,95E+00	4,19E-03	2,38E-03	1,95E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	9,77E-01	8,85E-02	3,37E-03	1,07E+00
	Used as raw materials	MJ, net calorific value	4,95E-01	(N/A)	(N/A)	4,95E-01
	<b>Total</b>	MJ, net calorific value	1,47E+00	8,85E-02	3,37E-03	1,56E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,27E+00	1,99E-01	5,59E-02	1,52E+00
	Used as raw materials	MJ, net calorific value	4,40E-01	1,78E-04	3,59E-03	4,44E-01
	<b>Total</b>	MJ, net calorific value	1,71E+00	1,99E-01	5,95E-02	1,97E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,33E-03	9,66E-04	8,63E-05	3,38E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	4,48E-07	1,51E-10	2,37E-09	4,51E-07
Non-hazardous waste disposed		kg	2,63E-04	2,33E-04	4,20E-03	4,70E-03
Radioactive waste disposed		kg	1,17E-05	1,80E-05	3,71E-07	3,00E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	2,07E-02	2,07E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

### 3. TENA Bed Normal 60 x 60 770044 & 770045

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,220	0,049	0,100	0,369
	Biogenic	kg CO <sub>2</sub> eq.	-0,191	0,000	0,063	-0,128
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00020	0,00030	0,00020	0,00069
	Total	kg CO <sub>2</sub> eq.	0,029	0,049	0,163	0,241
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,29E-03	1,65E-04	6,78E-05	1,52E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	2,63E-04	1,89E-05	6,40E-05	3,46E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	8,61E-04	8,49E-05	6,03E-05	1,01E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	1,67E-07	1,60E-08	8,07E-10	1,83E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	4,64E+00	6,15E-01	2,14E-01	5,47E+00
Water scarcity potential		m <sup>3</sup> eq.	7,79E+00	1,67E-02	9,51E-03	7,81E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	3,91E+00	3,54E-01	1,35E-02	4,28E+00
	Used as raw materials	MJ, net calorific value	1,98E+00	(N/A)	(N/A)	1,98E+00
	Total	MJ, net calorific value	5,89E+00	3,54E-01	1,35E-02	6,25E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	5,07E+00	7,97E-01	2,24E-01	6,09E+00
	Used as raw materials	MJ, net calorific value	1,76E+00	7,11E-04	1,44E-02	1,78E+00
	Total	MJ, net calorific value	6,83E+00	7,98E-01	2,38E-01	7,87E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	9,31E-03	3,87E-03	3,45E-04	1,35E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	1,79E-06	6,04E-10	9,49E-09	1,80E-06
Non-hazardous waste disposed		kg	1,05E-03	9,30E-04	1,68E-02	1,88E-02
Radioactive waste disposed		kg	4,66E-05	7,20E-05	1,48E-06	1,20E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	8,27E-02	8,27E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 4. TENA Bed Normal 60 x 90

770046 & 770047

one absorbent product

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,081	0,019	0,038	0,137
	Biogenic	kg CO <sub>2</sub> eq.	-0,073	0,000	0,024	-0,049
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00008	0,00011	0,00007	0,00026
	Total	kg CO <sub>2</sub> eq.	0,008	0,019	0,062	0,088
Acidification potential (AP)		kg SO <sub>2</sub> eq.	4,84E-04	6,29E-05	2,52E-05	5,72E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	9,83E-05	7,19E-06	2,42E-05	1,30E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,23E-04	3,23E-05	2,27E-05	3,78E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	6,21E-08	6,12E-09	2,96E-10	6,85E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,71E+00	2,34E-01	7,86E-02	2,02E+00
Water scarcity potential		m <sup>3</sup> eq.	2,88E+00	6,38E-03	3,57E-03	2,89E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,49E+00	1,35E-01	4,96E-03	1,63E+00
	Used as raw materials	MJ, net calorific value	7,58E-01	(N/A)	(N/A)	7,58E-01
	Total	MJ, net calorific value	2,24E+00	1,35E-01	4,96E-03	2,38E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,87E+00	3,04E-01	8,23E-02	2,25E+00
	Used as raw materials	MJ, net calorific value	6,48E-01	2,71E-04	5,47E-03	6,53E-01
	Total	MJ, net calorific value	2,51E+00	3,04E-01	8,78E-02	2,90E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	3,48E-03	1,47E-03	1,29E-04	5,08E-03

### Waste and output flows

Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	6,72E-07	2,30E-10	3,47E-09	6,76E-07
Non-hazardous waste disposed		kg	3,98E-04	3,55E-04	6,23E-03	6,98E-03
Radioactive waste disposed		kg	1,70E-05	2,74E-05	5,56E-07	4,50E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,15E-02	3,15E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 4. TENA Bed Normal 60 x 90 770046 & 770047

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,324	0,075	0,151	0,549
	Biogenic	kg CO <sub>2</sub> eq.	-0,293	0,000	0,096	-0,198
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00030	0,00045	0,00029	0,00104
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,031	0,075	0,246	0,353
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,94E-03	2,52E-04	1,01E-04	2,29E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	3,93E-04	2,88E-05	9,69E-05	5,19E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,29E-03	1,29E-04	9,10E-05	1,51E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,48E-07	2,45E-08	1,18E-09	2,74E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	6,82E+00	9,37E-01	3,15E-01	8,08E+00
Water scarcity potential		m <sup>3</sup> eq.	1,15E+01	2,55E-02	1,43E-02	1,16E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	5,94E+00	5,40E-01	1,98E-02	6,50E+00
	Used as raw materials	MJ, net calorific value	3,03E+00	(N/A)	(N/A)	3,03E+00
	<b>Total</b>	MJ, net calorific value	8,98E+00	5,40E-01	1,98E-02	9,53E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	7,46E+00	1,22E+00	3,29E-01	9,01E+00
	Used as raw materials	MJ, net calorific value	2,59E+00	1,08E-03	2,19E-02	2,61E+00
	<b>Total</b>	MJ, net calorific value	1,01E+01	1,22E+00	3,51E-01	1,16E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,39E-02	5,89E-03	5,18E-04	2,03E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,69E-06	9,22E-10	1,39E-08	2,70E-06
Non-hazardous waste disposed		kg	1,59E-03	1,42E-03	2,49E-02	2,79E-02
Radioactive waste disposed		kg	6,81E-05	1,10E-04	2,23E-06	1,80E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,26E-01	1,26E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 5. TENA Bed Plus 60 x 40 770118 & 770132 & 770114

one absorbent product

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,040	0,010	0,019	0,069
	Biogenic	kg CO <sub>2</sub> eq.	-0,040	0,000	0,013	-0,027
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00004	0,00006	0,00004	0,00013
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,000	0,010	0,032	0,043
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,50E-04	3,26E-05	1,32E-05	2,95E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	5,15E-05	3,73E-06	1,30E-05	6,82E-05
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,67E-04	1,68E-05	1,21E-05	1,96E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,28E-08	3,17E-09	1,90E-10	3,62E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	8,25E-01	1,22E-01	4,07E-02	9,87E-01
Water scarcity potential		m <sup>3</sup> eq.	1,45E+00	3,31E-03	1,80E-03	1,46E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	8,01E-01	7,00E-02	2,56E-03	8,73E-01
	Used as raw materials	MJ, net calorific value	4,12E-01	(N/A)	(N/A)	4,12E-01
	<b>Total</b>	MJ, net calorific value	1,21E+00	7,00E-02	2,56E-03	1,29E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	9,04E-01	1,58E-01	4,27E-02	1,10E+00
	Used as raw materials	MJ, net calorific value	2,97E-01	1,41E-04	2,97E-03	3,00E-01
	<b>Total</b>	MJ, net calorific value	1,20E+00	1,58E-01	4,56E-02	1,40E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,78E-03	7,64E-04	6,52E-05	2,61E-03

### Waste and output flows

Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,99E-07	1,19E-10	1,81E-09	3,01E-07
Non-hazardous waste disposed		kg	2,10E-04	1,84E-04	2,86E-03	3,25E-03
Radioactive waste disposed		kg	8,35E-06	1,42E-05	2,85E-07	2,29E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,63E-02	1,63E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 5. TENA Bed Plus 60 x 40 770118 & 770132 & 770114

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,161	0,039	0,077	0,277
	Biogenic	kg CO <sub>2</sub> eq.	-0,159	0,000	0,052	-0,108
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00015	0,00024	0,00015	0,00054
	Total	kg CO <sub>2</sub> eq.	0,002	0,039	0,129	0,170
Acidification potential (AP)		kg SO <sub>2</sub> eq.	9,99E-04	1,31E-04	5,27E-05	1,18E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	2,06E-04	1,49E-05	5,19E-05	2,73E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	6,68E-04	6,71E-05	4,84E-05	7,83E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	1,31E-07	1,27E-08	7,61E-10	1,45E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	3,30E+00	4,86E-01	1,63E-01	3,95E+00
Water scarcity potential		m <sup>3</sup> eq.	5,81E+00	1,32E-02	7,18E-03	5,84E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	3,20E+00	2,80E-01	1,02E-02	3,49E+00
	Used as raw materials	MJ, net calorific value	1,65E+00	(N/A)	(N/A)	1,65E+00
	Total	MJ, net calorific value	4,85E+00	2,80E-01	1,02E-02	5,14E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	3,61E+00	6,30E-01	1,71E-01	4,42E+00
	Used as raw materials	MJ, net calorific value	1,19E+00	5,62E-04	1,19E-02	1,20E+00
	Total	MJ, net calorific value	4,80E+00	6,31E-01	1,82E-01	5,62E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	7,12E-03	3,06E-03	2,61E-04	1,04E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	1,20E-06	4,78E-10	7,22E-09	1,20E-06
Non-hazardous waste disposed	kg	8,38E-04	7,36E-04	1,14E-02	1,30E-02
Radioactive waste disposed	kg	3,34E-05	5,69E-05	1,14E-06	9,14E-05
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	6,53E-02	6,53E-02
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 6. TENA Bed Plus 60 x 60

770119

one absorbent product

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,063	0,015	0,030	0,108
	Biogenic	kg CO <sub>2</sub> eq.	-0,064	0,000	0,021	-0,043
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00006	0,00009	0,00006	0,00021
	Total	kg CO <sub>2</sub> eq.	-0,001	0,015	0,051	0,066
Acidification potential (AP)		kg SO <sub>2</sub> eq.	3,92E-04	5,15E-05	2,09E-05	4,64E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	8,19E-05	5,88E-06	2,07E-05	1,08E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,63E-04	2,65E-05	1,93E-05	3,08E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	5,25E-08	5,01E-09	3,18E-10	5,78E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,26E+00	1,92E-01	6,43E-02	1,52E+00
Water scarcity potential		m <sup>3</sup> eq.	2,22E+00	5,23E-03	2,80E-03	2,23E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,28E+00	1,10E-01	4,04E-03	1,40E+00
	Used as raw materials	MJ, net calorific value	6,59E-01	(N/A)	(N/A)	6,59E-01
	Total	MJ, net calorific value	1,94E+00	1,10E-01	4,04E-03	2,06E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,39E+00	2,49E-01	6,74E-02	1,70E+00
	Used as raw materials	MJ, net calorific value	4,42E-01	2,22E-04	4,76E-03	4,47E-01
	Total	MJ, net calorific value	1,83E+00	2,49E-01	7,22E-02	2,15E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,81E-03	1,21E-03	1,02E-04	4,12E-03

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	4,49E-07	1,89E-10	2,86E-09	4,52E-07
Non-hazardous waste disposed	kg	3,34E-04	2,90E-04	4,29E-03	4,91E-03
Radioactive waste disposed	kg	1,32E-05	2,25E-05	4,47E-07	3,61E-05
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	2,58E-02	2,58E-02
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 6. TENA Bed Plus 60 x 60

770119

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,251	0,061	0,122	0,434
	Biogenic	kg CO <sub>2</sub> eq.	-0,255	0,000	0,083	-0,172
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00024	0,00037	0,00024	0,00085
	<b>Total</b>	kg CO <sub>2</sub> eq.	-0,004	0,061	0,205	0,263
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,57E-03	2,06E-04	8,34E-05	1,86E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	3,27E-04	2,35E-05	8,28E-05	4,34E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,05E-03	1,06E-04	7,71E-05	1,23E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,10E-07	2,00E-08	1,27E-09	2,31E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	5,06E+00	7,67E-01	2,57E-01	6,08E+00
Water scarcity potential		m <sup>3</sup> eq.	8,88E+00	2,09E-02	1,12E-02	8,92E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	5,13E+00	4,42E-01	1,61E-02	5,59E+00
	Used as raw materials	MJ, net calorific value	2,64E+00	(N/A)	(N/A)	2,64E+00
	<b>Total</b>	MJ, net calorific value	7,76E+00	4,42E-01	1,61E-02	8,22E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	5,54E+00	9,95E-01	2,70E-01	6,81E+00
	Used as raw materials	MJ, net calorific value	1,77E+00	8,88E-04	1,90E-02	1,79E+00
	<b>Total</b>	MJ, net calorific value	7,31E+00	9,96E-01	2,89E-01	8,60E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,12E-02	4,83E-03	4,07E-04	1,65E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	1,79E-06	7,54E-10	1,14E-08	1,81E-06
Non-hazardous waste disposed	kg	1,34E-03	1,16E-03	1,71E-02	1,96E-02
Radioactive waste disposed	kg	5,30E-05	8,98E-05	1,79E-06	1,45E-04
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	1,03E-01	1,03E-01
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 7. TENA Bed Plus 60 x 75

770121

one absorbent product

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,077	0,019	0,038	0,133
	Biogenic	kg CO <sub>2</sub> eq.	-0,080	0,000	0,026	-0,054
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00007	0,00012	0,00007	0,00026
	<b>Total</b>	kg CO <sub>2</sub> eq.	-0,003	0,019	0,064	0,080
Acidification potential (AP)		kg SO <sub>2</sub> eq.	4,85E-04	6,44E-05	2,56E-05	5,75E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,01E-04	7,36E-06	2,57E-05	1,34E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,25E-04	3,31E-05	2,39E-05	3,82E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	6,43E-08	6,26E-09	3,84E-10	7,10E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,55E+00	2,40E-01	7,83E-02	1,87E+00
Water scarcity potential		m <sup>3</sup> eq.	2,74E+00	6,53E-03	3,47E-03	2,75E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,59E+00	1,38E-01	4,92E-03	1,74E+00
	Used as raw materials	MJ, net calorific value	8,24E-01	(N/A)	(N/A)	8,24E-01
	<b>Total</b>	MJ, net calorific value	2,42E+00	1,38E-01	4,92E-03	2,56E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,70E+00	3,11E-01	8,22E-02	2,09E+00
	Used as raw materials	MJ, net calorific value	5,45E-01	2,77E-04	5,91E-03	5,51E-01
	<b>Total</b>	MJ, net calorific value	2,24E+00	3,11E-01	8,81E-02	2,64E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	3,46E-03	1,51E-03	1,26E-04	5,09E-03

### Waste and output flows

Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	5,61E-07	2,36E-10	3,47E-09	5,64E-07
Non-hazardous waste disposed		kg	4,14E-04	3,63E-04	5,32E-03	6,10E-03
Radioactive waste disposed		kg	1,60E-05	2,81E-05	5,53E-07	4,46E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,23E-02	3,23E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 7. TENA Bed Plus 60 x 75

770121

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,307	0,077	0,151	0,534
	Biogenic	kg CO <sub>2</sub> eq.	-0,319	0,000	0,103	-0,216
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00030	0,00046	0,00028	0,00105
	<b>Total</b>	kg CO <sub>2</sub> eq.	-0,012	0,077	0,254	0,319
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,94E-03	2,58E-04	1,02E-04	2,30E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	4,02E-04	2,94E-05	1,03E-04	5,34E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,30E-03	1,32E-04	9,54E-05	1,53E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,57E-07	2,50E-08	1,53E-09	2,84E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	6,20E+00	9,59E-01	3,13E-01	7,47E+00
Water scarcity potential		m <sup>3</sup> eq.	1,10E+01	2,61E-02	1,39E-02	1,10E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	6,37E+00	5,52E-01	1,97E-02	6,94E+00
	Used as raw materials	MJ, net calorific value	3,30E+00	(N/A)	(N/A)	3,30E+00
	<b>Total</b>	MJ, net calorific value	9,67E+00	5,52E-01	1,97E-02	1,02E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	6,79E+00	1,24E+00	3,29E-01	8,36E+00
	Used as raw materials	MJ, net calorific value	2,18E+00	1,11E-03	2,36E-02	2,21E+00
	<b>Total</b>	MJ, net calorific value	8,97E+00	1,24E+00	3,52E-01	1,06E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,38E-02	6,03E-03	5,04E-04	2,04E-02

### Waste and output flows

Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,24E-06	9,43E-10	1,39E-08	2,26E-06
Non-hazardous waste disposed		kg	1,66E-03	1,45E-03	2,13E-02	2,44E-02
Radioactive waste disposed		kg	6,39E-05	1,12E-04	2,21E-06	1,78E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,29E-01	1,29E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 8. TENA Bed Plus 60 x 90

770120

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,094	0,024	0,046	0,163
	Biogenic	kg CO <sub>2</sub> eq.	-0,099	0,000	0,032	-0,067
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00009	0,00014	0,00009	0,00032
	Total	kg CO <sub>2</sub> eq.	-0,005	0,024	0,078	0,097
Acidification potential (AP)		kg SO <sub>2</sub> eq.	5,94E-04	7,93E-05	3,15E-05	7,05E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,24E-04	9,06E-06	3,17E-05	1,65E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,99E-04	4,08E-05	2,95E-05	4,69E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	7,95E-08	7,71E-09	4,82E-10	8,77E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,87E+00	2,95E-01	9,59E-02	2,27E+00
Water scarcity potential		m <sup>3</sup> eq.	3,32E+00	8,05E-03	4,25E-03	3,33E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,97E+00	1,70E-01	6,03E-03	2,15E+00
	Used as raw materials	MJ, net calorific value	1,02E+00	(N/A)	(N/A)	1,02E+00
	Total	MJ, net calorific value	3,00E+00	1,70E-01	6,03E-03	3,17E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,05E+00	3,83E-01	1,01E-01	2,54E+00
	Used as raw materials	MJ, net calorific value	6,50E-01	3,42E-04	7,33E-03	6,58E-01
	Total	MJ, net calorific value	2,71E+00	3,83E-01	1,08E-01	3,20E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	4,25E-03	1,86E-03	1,54E-04	6,26E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	6,73E-07	2,90E-10	4,25E-09	6,77E-07
Non-hazardous waste disposed		kg	5,12E-04	4,47E-04	6,37E-03	7,33E-03
Radioactive waste disposed		kg	1,96E-05	3,46E-05	6,78E-07	5,48E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,97E-02	3,97E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 8. TENA Bed Plus 60 x 90

770120

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,374	0,094	0,185	0,653
	Biogenic	kg CO <sub>2</sub> eq.	-0,396	0,000	0,128	-0,268
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00037	0,00057	0,00035	0,00129
	<b>Total</b>	kg CO <sub>2</sub> eq.	-0,021	0,095	0,313	0,387
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,38E-03	3,17E-04	1,26E-04	2,82E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	4,96E-04	3,62E-05	1,27E-04	6,59E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,60E-03	1,63E-04	1,18E-04	1,88E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,18E-07	3,08E-08	1,93E-09	3,51E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	7,50E+00	1,18E+00	3,84E-01	9,06E+00
Water scarcity potential		m <sup>3</sup> eq.	1,33E+01	3,22E-02	1,70E-02	1,33E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	7,89E+00	6,81E-01	2,41E-02	8,60E+00
	Used as raw materials	MJ, net calorific value	4,09E+00	(N/A)	(N/A)	4,09E+00
	<b>Total</b>	MJ, net calorific value	1,20E+01	6,81E-01	2,41E-02	1,27E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	8,22E+00	1,53E+00	4,03E-01	1,02E+01
	Used as raw materials	MJ, net calorific value	2,60E+00	1,37E-03	2,93E-02	2,63E+00
	<b>Total</b>	MJ, net calorific value	1,08E+01	1,53E+00	4,32E-01	1,28E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,70E-02	7,43E-03	6,16E-04	2,50E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	2,69E-06	1,16E-09	1,70E-08	2,71E-06
Non-hazardous waste disposed	kg	2,05E-03	1,79E-03	2,55E-02	2,93E-02
Radioactive waste disposed	kg	7,83E-05	1,38E-04	2,71E-06	2,19E-04
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	1,59E-01	1,59E-01
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 9. TENA Bed Plus Secure Zone 60 x 60 770100 & 770109

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,065	0,015	0,031	0,111
	Biogenic	kg CO <sub>2</sub> eq.	-0,063	0,000	0,021	-0,042
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00006	0,00009	0,00006	0,00022
	Total	kg CO <sub>2</sub> eq.	0,002	0,015	0,051	0,069
Acidification potential (AP)		kg SO <sub>2</sub> eq.	3,95E-04	5,13E-05	2,13E-05	4,68E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	8,36E-05	5,86E-06	2,07E-05	1,10E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,66E-04	2,64E-05	1,93E-05	3,12E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	5,59E-08	4,99E-09	3,21E-10	6,12E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,31E+00	1,91E-01	6,66E-02	1,57E+00
Water scarcity potential		m <sup>3</sup> eq.	2,24E+00	5,20E-03	2,86E-03	2,25E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,27E+00	1,10E-01	4,18E-03	1,38E+00
	Used as raw materials	MJ, net calorific value	6,48E-01	(N/A)	(N/A)	6,48E-01
	Total	MJ, net calorific value	1,92E+00	1,10E-01	4,18E-03	2,03E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,43E+00	2,48E-01	6,97E-02	1,75E+00
	Used as raw materials	MJ, net calorific value	4,41E-01	2,21E-04	4,71E-03	4,46E-01
	Total	MJ, net calorific value	1,87E+00	2,48E-01	7,44E-02	2,20E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,90E-03	1,20E-03	1,04E-04	4,20E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	4,69E-07	1,88E-10	2,98E-09	4,72E-07
Non-hazardous waste disposed		kg	3,36E-04	2,89E-04	4,56E-03	5,18E-03
Radioactive waste disposed		kg	1,38E-05	2,24E-05	4,55E-07	3,66E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	2,57E-02	2,57E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 9. TENA Bed Plus Secure Zone 60 x 60 770100 & 770109

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,259	0,061	0,122	0,442
	Biogenic	kg CO <sub>2</sub> eq.	-0,250	0,000	0,082	-0,168
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00025	0,00037	0,00024	0,00086
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,009	0,061	0,205	0,275
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,58E-03	2,05E-04	8,53E-05	1,87E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	3,34E-04	2,34E-05	8,27E-05	4,40E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,06E-03	1,05E-04	7,72E-05	1,25E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,24E-07	1,99E-08	1,29E-09	2,45E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	5,24E+00	7,64E-01	2,66E-01	6,27E+00
Water scarcity potential		m <sup>3</sup> eq.	8,97E+00	2,08E-02	1,14E-02	9,00E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	5,08E+00	4,40E-01	1,67E-02	5,53E+00
	Used as raw materials	MJ, net calorific value	2,59E+00	(N/A)	(N/A)	2,59E+00
	<b>Total</b>	MJ, net calorific value	7,67E+00	4,40E-01	1,67E-02	8,13E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	5,73E+00	9,91E-01	2,79E-01	7,00E+00
	Used as raw materials	MJ, net calorific value	1,76E+00	8,84E-04	1,88E-02	1,78E+00
	<b>Total</b>	MJ, net calorific value	7,49E+00	9,92E-01	2,98E-01	8,78E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,16E-02	4,81E-03	4,16E-04	1,68E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	1,88E-06	7,51E-10	1,19E-08	1,89E-06
Non-hazardous waste disposed	kg	1,34E-03	1,16E-03	1,82E-02	2,07E-02
Radioactive waste disposed	kg	5,53E-05	8,94E-05	1,82E-06	1,47E-04
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	1,03E-01	1,03E-01
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 10. TENA Bed Plus Secure Zone 60 x 75

770131

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,081	0,019	0,039	0,139
	Biogenic	kg CO <sub>2</sub> eq.	-0,080	0,000	0,026	-0,054
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00008	0,00012	0,00008	0,00027
	Total	kg CO <sub>2</sub> eq.	0,001	0,020	0,065	0,085
Acidification potential (AP)		kg SO <sub>2</sub> eq.	4,99E-04	6,54E-05	2,67E-05	5,91E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,05E-04	7,48E-06	2,61E-05	1,38E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,36E-04	3,36E-05	2,44E-05	3,94E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	6,94E-08	6,36E-09	4,19E-10	7,62E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,64E+00	2,44E-01	8,27E-02	1,97E+00
Water scarcity potential		m <sup>3</sup> eq.	2,84E+00	6,64E-03	3,64E-03	2,85E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,61E+00	1,40E-01	5,20E-03	1,75E+00
	Used as raw materials	MJ, net calorific value	8,26E-01	(N/A)	(N/A)	8,26E-01
	Total	MJ, net calorific value	2,43E+00	1,40E-01	5,20E-03	2,58E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,80E+00	3,16E-01	8,66E-02	2,20E+00
	Used as raw materials	MJ, net calorific value	5,61E-01	2,82E-04	5,96E-03	5,68E-01
	Total	MJ, net calorific value	2,36E+00	3,16E-01	9,26E-02	2,77E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	3,63E-03	1,53E-03	1,32E-04	5,29E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	5,66E-07	2,40E-10	3,67E-09	5,70E-07
Non-hazardous waste disposed		kg	4,23E-04	3,69E-04	5,83E-03	6,62E-03
Radioactive waste disposed		kg	1,70E-05	2,85E-05	5,75E-07	4,61E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,28E-02	3,28E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 10. TENA Bed Plus Secure Zone 60 x 75

770131

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,324	0,078	0,155	0,556
	Biogenic	kg CO <sub>2</sub> eq.	-0,319	0,000	0,104	-0,215
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00031	0,00047	0,00030	0,00108
	Total	kg CO <sub>2</sub> eq.	0,005	0,078	0,259	0,342
Acidification potential (AP)		kg SO <sub>2</sub> eq.	1,99E-03	2,62E-04	1,07E-04	2,36E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	4,19E-04	2,99E-05	1,04E-04	5,53E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,34E-03	1,35E-04	9,74E-05	1,58E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	2,78E-07	2,54E-08	1,68E-09	3,05E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	6,57E+00	9,75E-01	3,31E-01	7,87E+00
Water scarcity potential		m <sup>3</sup> eq.	1,14E+01	2,66E-02	1,45E-02	1,14E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	6,43E+00	5,62E-01	2,08E-02	7,01E+00
	Used as raw materials	MJ, net calorific value	3,30E+00	(N/A)	(N/A)	3,30E+00
	Total	MJ, net calorific value	9,74E+00	5,62E-01	2,08E-02	1,03E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	7,19E+00	1,26E+00	3,46E-01	8,80E+00
	Used as raw materials	MJ, net calorific value	2,25E+00	1,13E-03	2,38E-02	2,27E+00
	Total	MJ, net calorific value	9,44E+00	1,26E+00	3,70E-01	1,11E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,45E-02	6,13E-03	5,28E-04	2,12E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,27E-06	9,58E-10	1,47E-08	2,28E-06
Non-hazardous waste disposed		kg	1,69E-03	1,48E-03	2,33E-02	2,65E-02
Radioactive waste disposed		kg	6,81E-05	1,14E-04	2,30E-06	1,85E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,31E-01	1,31E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 11.TENA Bed Plus Secure Zone 60 x 90 770104 & 770111

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,097	0,024	0,047	0,167
	Biogenic	kg CO <sub>2</sub> eq.	-0,097	0,000	0,032	-0,065
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00009	0,00014	0,00009	0,00033
	Total	kg CO <sub>2</sub> eq.	0,000	0,024	0,078	0,102
Acidification potential (AP)		kg SO <sub>2</sub> eq.	5,99E-04	7,92E-05	3,21E-05	7,10E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3-</sup> eq.	1,26E-04	9,05E-06	3,16E-05	1,67E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	4,04E-04	4,07E-05	2,94E-05	4,74E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	8,36E-08	7,70E-09	5,05E-10	9,18E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,95E+00	2,95E-01	9,93E-02	2,35E+00
Water scarcity potential		m <sup>3</sup> eq.	3,37E+00	8,04E-03	4,37E-03	3,38E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,95E+00	1,70E-01	6,24E-03	2,12E+00
	Used as raw materials	MJ, net calorific value	1,00E+00	(N/A)	(N/A)	1,00E+00
	Total	MJ, net calorific value	2,95E+00	1,70E-01	6,24E-03	3,13E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,14E+00	3,83E-01	1,04E-01	2,62E+00
	Used as raw materials	MJ, net calorific value	6,63E-01	3,41E-04	7,22E-03	6,70E-01
	Total	MJ, net calorific value	2,80E+00	3,83E-01	1,11E-01	3,29E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	4,36E-03	1,86E-03	1,59E-04	6,38E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	6,80E-07	2,90E-10	4,41E-09	6,84E-07
Non-hazardous waste disposed		kg	5,12E-04	4,47E-04	6,93E-03	7,89E-03
Radioactive waste disposed		kg	2,04E-05	3,45E-05	6,92E-07	5,56E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,97E-02	3,97E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 11.TENA Bed Plus Secure Zone 60 x 90 770104 & 770111

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,386	0,094	0,186	0,667
	Biogenic	kg CO <sub>2</sub> eq.	-0,388	0,000	0,126	-0,262
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00037	0,00057	0,00036	0,00130
	Total	kg CO <sub>2</sub> eq.	-0,001	0,095	0,313	0,406
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,40E-03	3,17E-04	1,28E-04	2,84E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	5,04E-04	3,62E-05	1,26E-04	6,66E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,61E-03	1,63E-04	1,18E-04	1,90E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,34E-07	3,08E-08	2,02E-09	3,67E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	7,81E+00	1,18E+00	3,97E-01	9,38E+00
Water scarcity potential		m <sup>3</sup> eq.	1,35E+01	3,22E-02	1,75E-02	1,35E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	7,79E+00	6,80E-01	2,50E-02	8,49E+00
	Used as raw materials	MJ, net calorific value	4,01E+00	(N/A)	(N/A)	4,01E+00
	Total	MJ, net calorific value	1,18E+01	6,80E-01	2,50E-02	1,25E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	8,55E+00	1,53E+00	4,16E-01	1,05E+01
	Used as raw materials	MJ, net calorific value	2,65E+00	1,37E-03	2,89E-02	2,68E+00
	Total	MJ, net calorific value	1,12E+01	1,53E+00	4,45E-01	1,32E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,75E-02	7,42E-03	6,34E-04	2,55E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,72E-06	1,16E-09	1,76E-08	2,74E-06
Non-hazardous waste disposed		kg	2,05E-03	1,79E-03	2,77E-02	3,16E-02
Radioactive waste disposed		kg	8,16E-05	1,38E-04	2,77E-06	2,22E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,59E-01	1,59E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 12. TENA Bed Super 60 x 75

772531 & 772534

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,088	0,023	0,044	0,155
	Biogenic	kg CO <sub>2</sub> eq.	-0,099	0,000	0,032	-0,067
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00009	0,00014	0,00009	0,00031
	Total	kg CO <sub>2</sub> eq.	-0,011	0,023	0,076	0,088
Acidification potential (AP)		kg SO <sub>2</sub> eq.	5,73E-04	7,67E-05	3,07E-05	6,80E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,21E-04	8,76E-06	3,15E-05	1,61E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,85E-04	3,94E-05	2,91E-05	4,53E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	7,83E-08	7,45E-09	5,36E-10	8,63E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,71E+00	2,86E-01	9,31E-02	2,09E+00
Water scarcity potential		m <sup>3</sup> eq.	3,12E+00	7,78E-03	4,01E-03	3,13E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,97E+00	1,64E-01	5,83E-03	2,14E+00
	Used as raw materials	MJ, net calorific value	1,02E+00	(N/A)	(N/A)	1,02E+00
	Total	MJ, net calorific value	2,99E+00	1,64E-01	5,83E-03	3,16E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,87E+00	3,70E-01	9,78E-02	2,34E+00
	Used as raw materials	MJ, net calorific value	5,57E-01	3,30E-04	7,33E-03	5,64E-01
	Total	MJ, net calorific value	2,43E+00	3,71E-01	1,05E-01	2,91E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	4,08E-03	1,80E-03	1,45E-04	6,02E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	5,61E-07	2,81E-10	4,15E-09	5,66E-07
Non-hazardous waste disposed		kg	5,01E-04	4,32E-04	5,48E-03	6,42E-03
Radioactive waste disposed		kg	1,83E-05	3,34E-05	6,49E-07	5,23E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	3,84E-02	3,84E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 12. TENA Bed Super 60 x 75

772531 & 772534

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,350	0,091	0,178	0,619
	Biogenic	kg CO <sub>2</sub> eq.	-0,396	0,000	0,128	-0,268
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00035	0,00055	0,00034	0,00125
	Total	kg CO <sub>2</sub> eq.	-0,045	0,092	0,306	0,352
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,29E-03	3,07E-04	1,23E-04	2,72E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	4,85E-04	3,50E-05	1,26E-04	6,46E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,54E-03	1,58E-04	1,16E-04	1,81E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,13E-07	2,98E-08	2,14E-09	3,45E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	6,83E+00	1,14E+00	3,72E-01	8,34E+00
Water scarcity potential		m <sup>3</sup> eq.	1,25E+01	3,11E-02	1,60E-02	1,25E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	7,86E+00	6,58E-01	2,33E-02	8,54E+00
	Used as raw materials	MJ, net calorific value	4,09E+00	(N/A)	(N/A)	4,09E+00
	Total	MJ, net calorific value	1,19E+01	6,58E-01	2,33E-02	1,26E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	7,50E+00	1,48E+00	3,91E-01	9,37E+00
	Used as raw materials	MJ, net calorific value	2,23E+00	1,32E-03	2,93E-02	2,26E+00
	Total	MJ, net calorific value	9,72E+00	1,48E+00	4,21E-01	1,16E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,63E-02	7,18E-03	5,82E-04	2,41E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,25E-06	1,12E-09	1,66E-08	2,26E-06
Non-hazardous waste disposed		kg	2,01E-03	1,73E-03	2,19E-02	2,57E-02
Radioactive waste disposed		kg	7,31E-05	1,34E-04	2,60E-06	2,09E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,54E-01	1,54E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 13. TENA Bed Super 60 x 90

772532

one absorbent product

## Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,105	0,028	0,054	0,187
	Biogenic	kg CO <sub>2</sub> eq.	-0,121	0,000	0,039	-0,082
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00011	0,00017	0,00010	0,00038
	<b>Total</b>	kg CO <sub>2</sub> eq.	-0,016	0,028	0,093	0,105
Acidification potential (AP)		kg SO <sub>2</sub> eq.	6,93E-04	9,37E-05	3,72E-05	8,24E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,47E-04	1,07E-05	3,84E-05	1,96E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	4,66E-04	4,81E-05	3,55E-05	5,50E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	9,51E-08	9,10E-09	6,54E-10	1,05E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,04E+00	3,49E-01	1,12E-01	2,50E+00
Water scarcity potential		m <sup>3</sup> eq.	3,72E+00	9,50E-03	4,85E-03	3,74E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

## Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,40E+00	2,01E-01	7,05E-03	2,61E+00
	Used as raw materials	MJ, net calorific value	1,25E+00	(N/A)	(N/A)	1,25E+00
	<b>Total</b>	MJ, net calorific value	3,66E+00	2,01E-01	7,05E-03	3,86E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,24E+00	4,52E-01	1,18E-01	2,81E+00
	Used as raw materials	MJ, net calorific value	6,57E-01	4,04E-04	8,97E-03	6,66E-01
	<b>Total</b>	MJ, net calorific value	2,89E+00	4,53E-01	1,27E-01	3,47E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	4,94E-03	2,19E-03	1,76E-04	7,31E-03

## Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	6,74E-07	3,43E-10	5,00E-09	6,79E-07
Non-hazardous waste disposed	kg	6,12E-04	5,28E-04	6,52E-03	7,66E-03
Radioactive waste disposed	kg	2,20E-05	4,08E-05	7,87E-07	6,36E-05
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	4,69E-02	4,69E-02
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 13. TENA Bed Super 60 x 90

772532

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,420	0,111	0,215	0,747
	Biogenic	kg CO <sub>2</sub> eq.	-0,485	0,000	0,157	-0,329
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00043	0,00067	0,00041	0,00151
	Total	kg CO <sub>2</sub> eq.	-0,065	0,112	0,373	0,420
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,77E-03	3,75E-04	1,49E-04	3,30E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	5,88E-04	4,28E-05	1,54E-04	7,84E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,87E-03	1,93E-04	1,42E-04	2,20E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,80E-07	3,64E-08	2,62E-09	4,19E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	8,14E+00	1,39E+00	4,50E-01	9,99E+00
Water scarcity potential		m <sup>3</sup> eq.	1,49E+01	3,80E-02	1,94E-02	1,50E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	9,61E+00	8,04E-01	2,82E-02	1,04E+01
	Used as raw materials	MJ, net calorific value	5,01E+00	(N/A)	(N/A)	5,01E+00
	Total	MJ, net calorific value	1,46E+01	8,04E-01	2,82E-02	1,55E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	8,94E+00	1,81E+00	4,73E-01	1,12E+01
	Used as raw materials	MJ, net calorific value	2,63E+00	1,61E-03	3,59E-02	2,66E+00
	Total	MJ, net calorific value	1,16E+01	1,81E+00	5,09E-01	1,39E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,98E-02	8,77E-03	7,04E-04	2,92E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,69E-06	1,37E-09	2,00E-08	2,72E-06
Non-hazardous waste disposed		kg	2,45E-03	2,11E-03	2,61E-02	3,06E-02
Radioactive waste disposed		kg	8,78E-05	1,63E-04	3,15E-06	2,54E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,88E-01	1,88E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 14. TENA Bed Super Secure Zone 60 x 90

770210

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,109	0,028	0,054	0,191
	Biogenic	kg CO <sub>2</sub> eq.	-0,119	0,000	0,039	-0,080
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00011	0,00017	0,00011	0,00039
	Total	kg CO <sub>2</sub> eq.	-0,010	0,028	0,093	0,111
Acidification potential (AP)		kg SO <sub>2</sub> eq.	7,00E-04	9,35E-05	3,84E-05	8,32E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,51E-04	1,07E-05	3,85E-05	2,00E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	4,74E-04	4,81E-05	3,57E-05	5,57E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	1,02E-07	9,09E-09	6,73E-10	1,12E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,12E+00	3,48E-01	1,18E-01	2,59E+00
Water scarcity potential		m <sup>3</sup> eq.	3,74E+00	9,48E-03	4,98E-03	3,76E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,39E+00	2,01E-01	7,38E-03	2,59E+00
	Used as raw materials	MJ, net calorific value	1,23E+00	(N/A)	(N/A)	1,23E+00
	Total	MJ, net calorific value	3,62E+00	2,01E-01	7,38E-03	3,83E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,33E+00	4,51E-01	1,24E-01	2,90E+00
	Used as raw materials	MJ, net calorific value	6,53E-01	4,03E-04	8,90E-03	6,62E-01
	Total	MJ, net calorific value	2,98E+00	4,52E-01	1,33E-01	3,56E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	5,13E-03	2,19E-03	1,81E-04	7,50E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	7,06E-07	3,42E-10	5,28E-09	7,12E-07
Non-hazardous waste disposed		kg	6,17E-04	5,27E-04	7,04E-03	8,18E-03
Radioactive waste disposed		kg	2,33E-05	4,07E-05	8,06E-07	6,49E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	4,68E-02	4,68E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

# 14. TENA Bed Super Secure Zone 60 x 90

770210

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,437	0,111	0,217	0,765
	Biogenic	kg CO <sub>2</sub> eq.	-0,477	0,000	0,156	-0,322
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00044	0,00067	0,00043	0,00154
	Total	kg CO <sub>2</sub> eq.	-0,040	0,112	0,373	0,445
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,80E-03	3,74E-04	1,54E-04	3,33E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	6,03E-04	4,27E-05	1,54E-04	8,00E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,90E-03	1,92E-04	1,43E-04	2,23E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	4,07E-07	3,64E-08	2,69E-09	4,46E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	8,49E+00	1,39E+00	4,72E-01	1,04E+01
Water scarcity potential		m <sup>3</sup> eq.	1,50E+01	3,79E-02	1,99E-02	1,50E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	9,54E+00	8,02E-01	2,95E-02	1,04E+01
	Used as raw materials	MJ, net calorific value	4,93E+00	(N/A)	(N/A)	4,93E+00
	Total	MJ, net calorific value	1,45E+01	8,02E-01	2,95E-02	1,53E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	9,31E+00	1,81E+00	4,95E-01	1,16E+01
	Used as raw materials	MJ, net calorific value	2,61E+00	1,61E-03	3,56E-02	2,65E+00
	Total	MJ, net calorific value	1,19E+01	1,81E+00	5,30E-01	1,43E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,05E-02	8,76E-03	7,24E-04	3,00E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	2,83E-06	1,37E-09	2,11E-08	2,85E-06
Non-hazardous waste disposed		kg	2,47E-03	2,11E-03	2,82E-02	3,27E-02
Radioactive waste disposed		kg	9,34E-05	1,63E-04	3,22E-06	2,60E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	1,87E-01	1,87E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 15. TENA Bed 80 x 180 Secure Zone 771102 & 771103

one absorbent product

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,171	0,036	0,076	0,283
	Biogenic	kg CO <sub>2</sub> eq.	-0,132	0,000	0,043	-0,089
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00014	0,00022	0,00014	0,00050
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,039	0,036	0,119	0,194
Acidification potential (AP)		kg SO <sub>2</sub> eq.	9,61E-04	1,21E-04	4,94E-05	1,13E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,94E-04	1,39E-05	4,52E-05	2,53E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	6,39E-04	6,24E-05	4,29E-05	7,44E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	1,20E-07	1,18E-08	8,57E-10	1,33E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	3,75E+00	4,52E-01	1,58E-01	4,35E+00
Water scarcity potential		m <sup>3</sup> eq.	6,08E+00	1,23E-02	7,61E-03	6,10E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,70E+00	2,60E-01	1,01E-02	2,97E+00
	Used as raw materials	MJ, net calorific value	1,37E+00	(N/A)	(N/A)	1,37E+00
	<b>Total</b>	MJ, net calorific value	4,07E+00	2,60E-01	1,01E-02	4,34E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	4,09E+00	5,86E-01	1,65E-01	4,84E+00
	Used as raw materials	MJ, net calorific value	1,52E+00	5,23E-04	9,89E-03	1,53E+00
	<b>Total</b>	MJ, net calorific value	5,61E+00	5,86E-01	1,75E-01	6,37E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	6,82E-03	2,84E-03	2,76E-04	9,94E-03

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	1,00E-06	4,44E-10	6,87E-09	1,01E-06
Non-hazardous waste disposed	kg	7,29E-04	6,84E-04	1,54E-02	1,69E-02
Radioactive waste disposed	kg	3,47E-05	5,29E-05	1,14E-06	8,87E-05
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	6,07E-02	6,07E-02
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 15. TENA Bed 80 x 180 Secure Zone 771102 & 771103

one day of absorbent product use						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,682	0,144	0,304	1,130
	Biogenic	kg CO <sub>2</sub> eq.	-0,528	0,000	0,173	-0,355
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00057	0,00087	0,00057	0,00201
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,155	0,145	0,477	0,777
Acidification potential (AP)		kg SO <sub>2</sub> eq.	3,84E-03	4,85E-04	1,97E-04	4,52E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	7,77E-04	5,54E-05	1,81E-04	1,01E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,56E-03	2,49E-04	1,72E-04	2,98E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	4,79E-07	4,72E-08	3,43E-09	5,30E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,50E+01	1,81E+00	6,31E-01	1,74E+01
Water scarcity potential		m <sup>3</sup> eq.	2,43E+01	4,92E-02	3,04E-02	2,44E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,08E+01	1,04E+00	4,02E-02	1,19E+01
	Used as raw materials	MJ, net calorific value	5,47E+00	(N/A)	(N/A)	5,47E+00
	<b>Total</b>	MJ, net calorific value	1,63E+01	1,04E+00	4,02E-02	1,74E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,63E+01	2,34E+00	6,59E-01	1,93E+01
	Used as raw materials	MJ, net calorific value	6,09E+00	2,09E-03	3,96E-02	6,13E+00
	<b>Total</b>	MJ, net calorific value	2,24E+01	2,34E+00	6,98E-01	2,55E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	2,73E-02	1,14E-02	1,10E-03	3,98E-02
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	4,02E-06	1,78E-09	2,75E-08	4,05E-06
Non-hazardous waste disposed		kg	2,91E-03	2,73E-03	6,18E-02	6,74E-02
Radioactive waste disposed		kg	1,39E-04	2,11E-04	4,56E-06	3,55E-04
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	2,43E-01	2,43E-01
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 16. Traversa Flufsan 80 x 180 360906

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,126	0,026	0,052	0,204
	Biogenic	kg CO <sub>2</sub> eq.	-0,083	0,000	0,027	-0,055
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00011	0,00016	0,00010	0,00037
	Total	kg CO <sub>2</sub> eq.	0,044	0,026	0,079	0,149
Acidification potential (AP)		kg SO <sub>2</sub> eq.	6,73E-04	8,71E-05	3,40E-05	7,94E-04
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	1,26E-04	9,94E-06	2,92E-05	1,65E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	4,47E-04	4,47E-05	2,81E-05	5,20E-04
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	8,21E-08	8,46E-09	3,67E-10	9,09E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,84E+00	3,24E-01	1,11E-01	3,28E+00
Water scarcity potential		m <sup>3</sup> eq.	4,56E+00	8,83E-03	5,12E-03	4,58E+00
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,76E+00	1,87E-01	7,06E-03	1,95E+00
	Used as raw materials	MJ, net calorific value	8,59E-01	(N/A)	(N/A)	8,59E-01
	Total	MJ, net calorific value	2,61E+00	1,87E-01	7,06E-03	2,81E+00
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	3,11E+00	4,20E-01	1,16E-01	3,65E+00
	Used as raw materials	MJ, net calorific value	1,18E+00	3,75E-04	6,24E-03	1,19E+00
	Total	MJ, net calorific value	4,29E+00	4,21E-01	1,22E-01	4,83E+00
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	4,90E-03	2,04E-03	1,86E-04	7,12E-03
Waste and output flows						
Parameter		Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed		kg	9,74E-07	3,19E-10	4,92E-09	9,79E-07
Non-hazardous waste disposed		kg	5,45E-04	4,91E-04	1,09E-02	1,20E-02
Radioactive waste disposed		kg	2,93E-05	3,79E-05	7,69E-07	6,80E-05
Components for reuse		kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling		kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery		kg	0,00	0,00	4,36E-02	4,36E-02
Exported energy, electricity		MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal		MJ	(N/A)	(N/A)	(N/A)	(N/A)

## 16. Traversa Flufsan 80 x 180 360906

one day of absorbent product use

### Environmental impact category

Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	0,505	0,103	0,208	0,817
	Biogenic	kg CO <sub>2</sub> eq.	-0,330	0,000	0,109	-0,222
	Land use and land transformation	kg CO <sub>2</sub> eq.	0,00045	0,00063	0,00040	0,00148
	<b>Total</b>	kg CO <sub>2</sub> eq.	0,175	0,104	0,318	0,597
Acidification potential (AP)		kg SO <sub>2</sub> eq.	2,69E-03	3,48E-04	1,36E-04	3,18E-03
Eutrophication potential (EP)		kg PO <sub>4</sub> <sup>3</sup> eq.	5,02E-04	3,98E-05	1,17E-04	6,59E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,79E-03	1,79E-04	1,12E-04	2,08E-03
Abiotic depletion potential - Elements (ADP-elements)		kg Sb eq.	3,28E-07	3,38E-08	1,47E-09	3,64E-07
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,14E+01	1,30E+00	4,45E-01	1,31E+01
Water scarcity potential		m <sup>3</sup> eq.	1,82E+01	3,53E-02	2,05E-02	1,83E+01
Land use and land use change (LUC)		m <sup>2</sup> per year	(N/A)	(N/A)	(N/A)	(N/A)

### Resources

Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	7,02E+00	7,47E-01	2,83E-02	7,80E+00
	Used as raw materials	MJ, net calorific value	3,44E+00	(N/A)	(N/A)	3,44E+00
	<b>Total</b>	MJ, net calorific value	1,05E+01	7,47E-01	2,83E-02	1,12E+01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,24E+01	1,68E+00	4,63E-01	1,46E+01
	Used as raw materials	MJ, net calorific value	4,73E+00	1,50E-03	2,50E-02	4,75E+00
	<b>Total</b>	MJ, net calorific value	1,72E+01	1,68E+00	4,88E-01	1,93E+01
Secondary material		kg	(N/A)	(N/A)	(N/A)	(N/A)
Renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Non-renewable secondary fuels		MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
Net use of fresh water		m <sup>3</sup>	1,96E-02	8,15E-03	7,45E-04	2,85E-02

### Waste and output flows

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	3,90E-06	1,27E-09	1,97E-08	3,92E-06
Non-hazardous waste disposed	kg	2,18E-03	1,96E-03	4,37E-02	4,78E-02
Radioactive waste disposed	kg	1,17E-04	1,52E-04	3,08E-06	2,72E-04
Components for reuse	kg	(N/A)	(N/A)	(N/A)	(N/A)
Material for recycling	kg	(N/A)	(N/A)	(N/A)	(N/A)
Materials for energy recovery	kg	0,00	0,00	1,74E-01	1,74E-01
Exported energy, electricity	MJ	(N/A)	(N/A)	(N/A)	(N/A)
Exported energy, thermal	MJ	(N/A)	(N/A)	(N/A)	(N/A)

# References

1. PCR 2011:14 v. 3.01
2. General Programme Instructions for the International EPD® System v. 3.01
3. ISO 14040:2006 Environmental management – Life cycle assessment – Principles and framework
4. ISO 14044:2006 Environmental management – Life cycle assessment – Requirements and guidelines
5. ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures
6. ISO 14020:2000 Environmental labels and declarations – General principles
7. DPCM 12/01/17 – G.U. n. 65 del 18 marzo 2017
8. [www.environdec.com](http://www.environdec.com)

Version	Revision Item
6	
7	<p>New articles added (no new LCA calculations):</p> <p>TENA Bed Normal 60x60, art no 770045</p> <p>TENA Bed Normal 60x90, art no 770047</p> <p>TENA Bed Plus 60x40, art no 770114</p> <p>TENA Bed Plus 60x60, art no 770109</p> <p>TENA Bed Plus 60x90, art no 770111</p>



## **Making a better mark – for people, and for the planet**

We create value for customers and consumers by increasing health and hygiene standards through our innovative solutions, and by sharing knowledge and promoting awareness.

We create business value by meeting societal needs and offering more people an opportunity to work, in better conditions, so they can provide for their families and live happier, fuller lives.

Since 2008 we've also been taking steps to make every TENA product more sustainable. For example, by converting to 100% renewable electricity in all our factories. Our goal is to reduce the carbon footprint of our products and services by 50 % by 2030.

Step by step, to leave a better mark on the planet.