



Environmental Product Declaration



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

TENA Fix



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Programme operator:	EPD International AB

Essity is a leading global hygiene and health company

Essity is a global, leading hygiene and health company. We are dedicated to improving well-being through our products and services.

Sales are conducted in approximately 150 countries under the leading global brands TENA and Tork, and other strong brands, such as Actimove, JOBST, Knix, Leukoplast, Libero, Libresse, Lotus, Modibodi, Nosotras, Saba, Tempo, TOM Organic, Vinda and Zewa.

Essity has about 48,000 employees. Net sales in 2022 amounted to approximately SEK 156bn (EUR 15bn).

The company's headquarters is located in Stockholm, Sweden, and Essity 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.

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 a more positive impact on society and the planet.



TENA assortment

TENA Female Liners & Pads	A drier, safer, and more comfortable product than ordinary menstrual towels. The liners and pads give triple protection against leaks, odour, and moisture. The products are body shaped for comfort, protection, and discretion.
TENA Men	TENA Men are discreet and safe protection for men who experience urine leakage. Specially developed for men who want discretion and to continue to live an active life.
TENA Pants & Underwear	Close body fit for security and confidence. High performance products that Absorbent disposable pant for users experiencing incontinence. High performance products, that are as easy to put on/take off as underwear. Stretchy, soft and textile-like materials offer users a body-close fit for healthy skin, high leakage security, confidence, and comfort during use. The products are available in a range of sizes and absorbency levels and as unisex or gender specific products and are suitable for all types of incontinence. Dermatologically tested and/or Dermatologically Approved by Skin Health Alliance.
TENA Flex	A belted product with elastic belt for easy & ergonomic changes for the carer and high security for the user. TENA Flex provides ease of use and best fit; adjusts to different body shapes, securing comfortable fit, skin health and superior leakage security. The products are available in a range of sizes and absorbency levels and are suitable for all types of incontinence. Dermatologically tested and/or Dermatologically Approved by Skin Health Alliance.
TENA Comfort TENA Rectangular	All-in-one incontinence products designed to provide protection for healthy skin and high leakage security. The products are available in a broad range of sizes and absorbency levels ensuring a comfortable adjustable fit and are suitable for all types of incontinence. Dermatologically tested and/or Dermatologically Approved by Skin Health Alliance.
TENA Slip	All-in-one incontinence products 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. Dermatologically tested and/or Dermatologically Approved by Skin Health Alliance.
TENA Fix	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.
TENA Bed	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

Libero assortment	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.
DryKids	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 Fix XS	754049	190 x 160	17
2	TENA Fix S	754023 754028 754054 754055	190 x 210	19
3	TENA Fix M	754024 754029 754035 754056 754057	220 x 230	20
4	TENA Fix L	754025 754030 754036 754058 754059	230 x 250	22
5	TENA Fix XL	754026 754031 754037 754060 754061	265 x 270	26
6	TENA Fix XXL	754027 754032 754038 754052 754053	280 x 290	28
7	TENA Fix 3XL	754047 754062	330 x 320	34
8	TENA Fix 4XL	754067	380 x 350	41
9	TENA Fix 5XL	754068	430 x 390	48

This environmental declaration covers the following products		Article number	Dimension (mm)	Weight $\pm 5\%$ (g)
10	TENA Fix Acute	754070	250 x 120	7
11	TENA Fix Original S	755402	205 x 170	7
12	TENA Fix Original M	755501	255 x 170	8
13	TENA Fix Original L	755612	270 x 170	9

The way we work

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

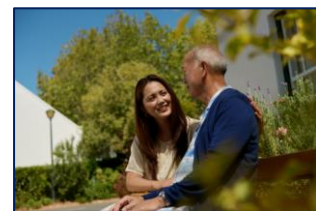
RESPONSIBLE SOURCING involves seeking high-quality raw materials that are safe from both a social and environmental perspective. The company's suppliers adhere to strict demands in Essity's Global Supplier Standard



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 13485, ISO 14001 and ISO 18001.



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



Life cycle management of Essity 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 during the years 2008 to 2022 by working in a structured way to continually improve performance and efficiency.

Product	Carbon footprint reduction (g CO ₂ -eq/product)
TENA Flex	- 22 %
TENA Pads & Liners	- 43 %
TENA Men	- 26 %
TENA Pants & Underwear	- 41 %
TENA Slip	- 32 %
TENA Comfort	- 21 %
TENA Bed	- 24 %

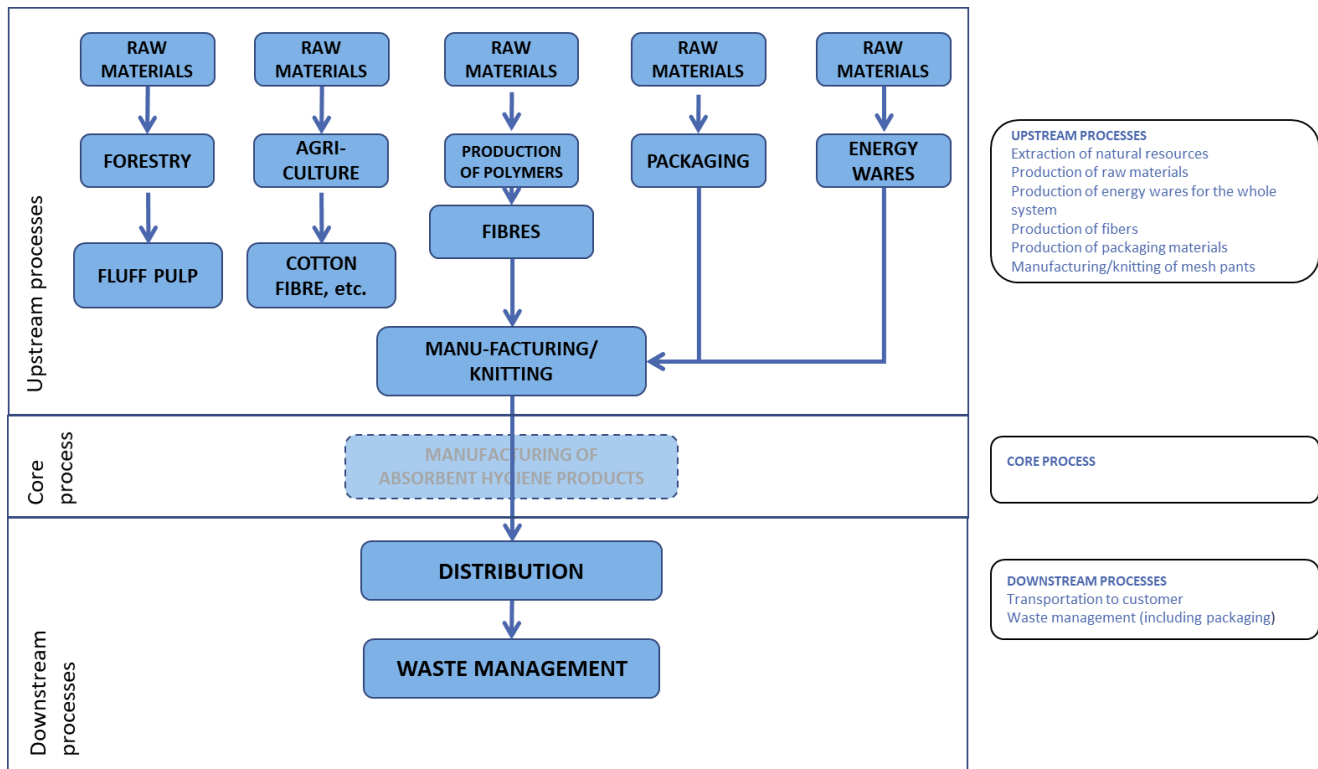
The carbon footprint reductions in Europe between 2008-2022 for TENA products are based on Life Cycle Assessments (LCA). The LCA is conducted by Essity, and third party verified in 2023.

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 a TENA FIX 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, fuel production for both heat and power generation and the production of the raw materials, packaging materials, and fibers. In addition, the manufacturing of TENA Fix is part of the upstream process since it is not an Essity production.

In this case the **CORE PROCESS** does not contain any parts of the production

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.

Parameters in the declaration

FUNCTIONAL UNIT	The functional unit is according to PCR 2011:14, one product.
CALCULATION OF GLOBAL WARMING POTENTIAL	Both emissions to and removals of CO ₂ 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 ₂ removals and biogenic CO ₂ 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>Emissions of biogenic CO₂ 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	<p>The materials listed in the composition table are combined into three groups to keep a level of confidentiality. A general list of content is also shown.</p> <p>For the life cycle calculations each product's particular specification have been used.</p>
PACKAGING	<p>The packaging consists of a consumer pack, a polyethylene plastic bag, and transport packaging of corrugated board boxes, i.e., made of renewable fibers.</p> <p>A few articles of TENA Men, TENA Female Pads and Liners have a consumer pack of carton from renewable fibers. Different levels of recycled plastic materials are used in the consumer pack.</p>
MANUFACTURING SITES	For TENA Fix, the production is included in the upstream data since it is not an Essity site. The production is located in Slovakia and China.
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 2018-2021. Supplier data for raw materials like film and nonwoven as well as other, minor materials may be some years older. Manufacturing data are from 2022. Article specifications are from 2023.
THOUSAND SEPARATOR AND DECIMAL MARK	<p>SI style (French version): 1 234,56;</p> <p>i.e. comma is used as decimal mark. Number of value digits: 3</p>

Additional environmental information



2024: Revision 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. A general revision was done in 2020 with the validity to 2025, but now all EPDs are revised again. There are new rules and guidance for the environmental impact categories to which the calculations have been adapted, e.g., handling biogenic carbon, acidification and eutrophication potentials. This alters to some extent the environmental profile of the products. However, a follow up of the carbon footprint of TENA products (Environmental achievements, page 7) show significant reductions between the years 2008 and 2022 since the continuous product development cover new and better product designs, with less use of material, improved production by suppliers and improvements at TENA manufacturing sites.

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.

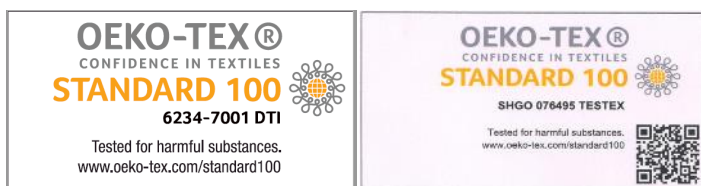
EPD's within the same product category but from different programmes may not be comparable.



Product category rules (PCR): Absorbent Hygiene Products, 2011:14, version 3.01, UN CPC 32193 General Programme Instructions ver.4.01	
Programme operator: EPD International AB, Box 210 60, SE-100 31 Stockholm, Sweden e-mail: info@environdec.com	
Product Category Rules review was conducted by: The Technical Committee of the International EPD® System. Chair: Massimo Marino Contact via info@environdec.com	
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 Hakan.Stripple@IVL.se</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 Anna-Karin Gunnnergren, anna-karin.gunnnergren@essity.com The EPD owner has the sole ownership, liability, and responsibility for the EPD	

TENA Fix – environmental performance

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. It can be washed several times without losing shape.



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

Pulp	0 %
Polymers	100 %

Content declaration

Elastane
Polyamide (part of assortment)
Polyester (part of assortment)



1. TENA Fix XS

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,092	0,029	0,023	0,145
	Biogenic	kg CO ₂ eq.	-0,008	0,000	0,009	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00002	0,00004	0,00004	0,00009
	Total	kg CO ₂ eq.	0,084	0,029	0,032	0,146
Acidification potential (AP)		mol H ⁺ eq.	1,75E-04	1,42E-04	2,32E-05	3,40E-04
Eutrophication potential (EP), freshwater		kg P eq.	1,06E-06	1,42E-08	1,38E-07	1,22E-06
Eutrophication potential (EP), marine		kg N eq.	4,86E-05	2,56E-05	1,03E-05	8,45E-05
Eutrophication potential (EP), terrestrial		mol N eq.	4,82E-04	2,81E-04	1,15E-04	8,77E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,87E-04	7,57E-05	2,04E-05	2,83E-04
Ozone depletion potential (ODP)		CFC-11 eq.	4,66E-10	2,25E-16	1,53E-12	4,68E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,87E-08	1,51E-09	3,52E-10	2,06E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,22E+00	3,08E-01	7,36E-02	2,61E+00
Water scarcity potential		m ³ eq.	4,53E-01	9,29E-03	3,38E-03	4,66E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,88E-01	5,34E-02	6,19E-03	3,48E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,88E-01	5,34E-02	6,19E-03	3,48E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,23E+00	3,08E-01	7,37E-02	2,61E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,23E+00	3,08E-01	7,37E-02	2,61E+00

2. TENA Fix S

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,084	0,018	0,021	0,123
	Biogenic	kg CO ₂ eq.	-0,003	0,000	0,004	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00004	0,00003	0,00008
	Total	kg CO ₂ eq.	0,081	0,018	0,025	0,124
Acidification potential (AP)		mol H ⁺ eq.	1,15E-04	9,64E-05	1,84E-05	2,30E-04
Eutrophication potential (EP), freshwater		kg P eq.	6,37E-07	6,33E-08	1,26E-07	8,26E-07
Eutrophication potential (EP), marine		kg N eq.	3,64E-05	1,44E-05	7,72E-06	5,85E-05
Eutrophication potential (EP), terrestrial		mol N eq.	3,70E-04	1,53E-04	9,00E-05	6,13E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,62E-04	4,05E-05	1,59E-05	2,18E-04
Ozone depletion potential (ODP)		CFC-11 eq.	6,77E-11	3,06E-16	6,38E-13	6,84E-11
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,21E-08	2,83E-09	2,55E-10	1,52E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,99E+00	3,55E-01	5,70E-02	2,40E+00
Water scarcity potential		m ³ eq.	4,86E-02	4,02E-04	3,11E-03	5,22E-02
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,74E-01	7,80E-02	4,95E-03	3,57E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,74E-01	7,80E-02	4,95E-03	3,57E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,99E+00	3,55E-01	5,72E-02	2,40E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	1,99E+00	3,55E-01	5,72E-02	2,40E+00

3. TENA Fix M

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,089	0,019	0,022	0,130
	Biogenic	kg CO ₂ eq.	-0,003	0,000	0,004	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00004	0,00003	0,00008
	Total	kg CO ₂ eq.	0,086	0,019	0,026	0,130
Acidification potential (AP)		mol H ⁺ eq.	1,20E-04	1,01E-04	1,94E-05	2,41E-04
Eutrophication potential (EP), freshwater		kg P eq.	6,64E-07	6,66E-08	1,33E-07	8,63E-07
Eutrophication potential (EP), marine		kg N eq.	3,81E-05	1,52E-05	8,11E-06	6,14E-05
Eutrophication potential (EP), terrestrial		mol N eq.	3,88E-04	1,61E-04	9,48E-05	6,44E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,70E-04	4,27E-05	1,67E-05	2,29E-04
Ozone depletion potential (ODP)		CFC-11 eq.	6,86E-11	3,22E-16	6,38E-13	6,93E-11
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,27E-08	2,98E-09	2,68E-10	1,59E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,09E+00	3,74E-01	6,01E-02	2,53E+00
Water scarcity potential		m ³ eq.	4,90E-02	4,23E-04	3,27E-03	5,27E-02
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	2,88E-01	8,21E-02	5,21E-03	3,75E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,88E-01	8,21E-02	5,21E-03	3,75E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,09E+00	3,74E-01	6,02E-02	2,53E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,09E+00	3,74E-01	6,02E-02	2,53E+00

4. TENA Fix L

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,097	0,021	0,024	0,142
	Biogenic	kg CO ₂ eq.	-0,003	0,000	0,004	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00004	0,00003	0,00009
	Total	kg CO ₂ eq.	0,094	0,021	0,028	0,143
Acidification potential (AP)		mol H ⁺ eq.	1,31E-04	1,12E-04	2,10E-05	2,64E-04
Eutrophication potential (EP), freshwater		kg P eq.	7,17E-07	7,33E-08	1,46E-07	9,36E-07
Eutrophication potential (EP), marine		kg N eq.	4,15E-05	1,67E-05	8,75E-06	6,70E-05
Eutrophication potential (EP), terrestrial		mol N eq.	4,24E-04	1,77E-04	1,03E-04	7,04E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	1,86E-04	4,69E-05	1,81E-05	2,51E-04
Ozone depletion potential (ODP)		CFC-11 eq.	7,04E-11	3,53E-16	6,38E-13	7,11E-11
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,38E-08	3,28E-09	2,88E-10	1,73E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	2,30E+00	4,11E-01	6,50E-02	2,77E+00
Water scarcity potential		m ³ eq.	4,96E-02	4,65E-04	3,59E-03	5,36E-02
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	3,16E-01	9,03E-02	5,65E-03	4,12E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	3,16E-01	9,03E-02	5,65E-03	4,12E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	2,30E+00	4,11E-01	6,52E-02	2,77E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	2,30E+00	4,11E-01	6,52E-02	2,77E+00

5. TENA Fix XL

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,133	0,045	0,033	0,211
	Biogenic	kg CO ₂ eq.	-0,008	0,000	0,009	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00002	0,00005	0,00005	0,00013
	Total	kg CO ₂ eq.	0,125	0,045	0,042	0,213
Acidification potential (AP)		mol H ⁺ eq.	2,27E-04	2,20E-04	3,10E-05	4,78E-04
Eutrophication potential (EP), freshwater		kg P eq.	1,32E-06	2,07E-08	1,99E-07	1,54E-06
Eutrophication potential (EP), marine		kg N eq.	6,49E-05	3,94E-05	1,34E-05	1,18E-04
Eutrophication potential (EP), terrestrial		mol N eq.	6,53E-04	4,32E-04	1,52E-04	1,24E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,65E-04	1,17E-04	2,69E-05	4,09E-04
Ozone depletion potential (ODP)		CFC-11 eq.	4,75E-10	3,17E-16	1,53E-12	4,76E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	2,40E-08	2,34E-09	4,49E-10	2,68E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	3,19E+00	4,75E-01	9,71E-02	3,76E+00
Water scarcity potential		m ³ eq.	4,56E-01	1,45E-02	4,89E-03	4,75E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	4,20E-01	8,29E-02	8,30E-03	5,11E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	4,20E-01	8,29E-02	8,30E-03	5,11E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	3,19E+00	4,75E-01	9,73E-02	3,77E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	3,19E+00	4,75E-01	9,73E-02	3,77E+00

6. TENA Fix XXL

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,140	0,048	0,034	0,222
	Biogenic	kg CO ₂ eq.	-0,008	0,000	0,009	0,001
	Land use and land transformation	kg CO ₂ eq.	0,00002	0,00005	0,00005	0,00013
	Total	kg CO ₂ eq.	0,132	0,048	0,044	0,223
Acidification potential (AP)		mol H ⁺ eq.	2,36E-04	2,32E-04	3,22E-05	5,00E-04
Eutrophication potential (EP), freshwater		kg P eq.	1,36E-06	2,17E-08	2,09E-07	1,59E-06
Eutrophication potential (EP), marine		kg N eq.	6,74E-05	4,15E-05	1,39E-05	1,23E-04
Eutrophication potential (EP), terrestrial		mol N eq.	6,81E-04	4,56E-04	1,58E-04	1,29E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	2,77E-04	1,23E-04	2,80E-05	4,28E-04
Ozone depletion potential (ODP)		CFC-11 eq.	4,76E-10	3,31E-16	1,53E-12	4,78E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	2,48E-08	2,47E-09	4,64E-10	2,77E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	3,34E+00	5,01E-01	1,01E-01	3,95E+00
Water scarcity potential		m ³ eq.	4,56E-01	1,53E-02	5,12E-03	4,77E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	4,41E-01	8,76E-02	8,63E-03	5,37E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	4,41E-01	8,76E-02	8,63E-03	5,37E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	3,35E+00	5,01E-01	1,01E-01	3,95E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	3,35E+00	5,01E-01	1,01E-01	3,95E+00

7. TENA Fix 3XL

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,165	0,058	0,041	0,264
	Biogenic	kg CO ₂ eq.	-0,008	0,000	0,009	0,002
	Land use and land transformation	kg CO ₂ eq.	0,00003	0,00006	0,00006	0,00015
	Total	kg CO ₂ eq.	0,158	0,058	0,050	0,266
Acidification potential (AP)		mol H ⁺ eq.	2,69E-04	2,81E-04	3,71E-05	5,87E-04
Eutrophication potential (EP), freshwater		kg P eq.	1,52E-06	2,58E-08	2,47E-07	1,79E-06
Eutrophication potential (EP), marine		kg N eq.	7,77E-05	5,02E-05	1,58E-05	1,44E-04
Eutrophication potential (EP), terrestrial		mol N eq.	7,89E-04	5,51E-04	1,82E-04	1,52E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,26E-04	1,49E-04	3,21E-05	5,08E-04
Ozone depletion potential (ODP)		CFC-11 eq.	4,81E-10	3,89E-16	1,53E-12	4,83E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	2,81E-08	2,98E-09	5,25E-10	3,16E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	3,96E+00	6,07E-01	1,16E-01	4,68E+00
Water scarcity potential		m ³ eq.	4,58E-01	1,86E-02	6,08E-03	4,83E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	5,24E-01	1,06E-01	9,97E-03	6,41E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	5,24E-01	1,06E-01	9,97E-03	6,41E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	3,96E+00	6,07E-01	1,16E-01	4,68E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	3,96E+00	6,07E-01	1,16E-01	4,68E+00

8. TENA Fix 4XL

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,198	0,070	0,049	0,316
	Biogenic	kg CO ₂ eq.	-0,014	0,000	0,016	0,002
	Land use and land transformation	kg CO ₂ eq.	0,00003	0,00008	0,00008	0,00019
	Total	kg CO ₂ eq.	0,184	0,070	0,064	0,319
Acidification potential (AP)		mol H ⁺ eq.	3,16E-04	3,39E-04	4,55E-05	7,00E-04
Eutrophication potential (EP), freshwater		kg P eq.	1,87E-06	3,08E-08	2,95E-07	2,20E-06
Eutrophication potential (EP), marine		kg N eq.	9,44E-05	6,04E-05	1,98E-05	1,75E-04
Eutrophication potential (EP), terrestrial		mol N eq.	9,42E-04	6,63E-04	2,23E-04	1,83E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	3,89E-04	1,80E-04	3,96E-05	6,08E-04
Ozone depletion potential (ODP)		CFC-11 eq.	5,24E-10	4,62E-16	2,55E-12	5,26E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	3,39E-08	3,59E-09	6,64E-10	3,81E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	4,71E+00	7,30E-01	1,42E-01	5,58E+00
Water scarcity potential		m ³ eq.	4,82E-01	2,24E-02	7,26E-03	5,11E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	6,34E-01	1,28E-01	1,22E-02	7,74E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	6,34E-01	1,28E-01	1,22E-02	7,74E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	4,71E+00	7,31E-01	1,43E-01	5,58E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	4,71E+00	7,31E-01	1,43E-01	5,58E+00

9. TENA Fix 5XL

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,228	0,081	0,056	0,366
	Biogenic	kg CO ₂ eq.	-0,013	0,000	0,016	0,002
	Land use and land transformation	kg CO ₂ eq.	0,00003	0,00009	0,00009	0,00021
	Total	kg CO ₂ eq.	0,215	0,082	0,072	0,368
Acidification potential (AP)		mol H ⁺ eq.	3,54E-04	3,96E-04	5,12E-05	8,02E-04
Eutrophication potential (EP), freshwater		kg P eq.	2,06E-06	3,56E-08	3,40E-07	2,43E-06
Eutrophication potential (EP), marine		kg N eq.	1,06E-04	7,06E-05	2,20E-05	1,99E-04
Eutrophication potential (EP), terrestrial		mol N eq.	1,07E-03	7,74E-04	2,51E-04	2,09E-03
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	4,46E-04	2,10E-04	4,45E-05	7,01E-04
Ozone depletion potential (ODP)		CFC-11 eq.	5,30E-10	5,30E-16	2,55E-12	5,32E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	3,77E-08	4,20E-09	7,35E-10	4,27E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	5,42E+00	8,53E-01	1,60E-01	6,43E+00
Water scarcity potential		m ³ eq.	4,84E-01	2,62E-02	8,38E-03	5,18E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	7,31E-01	1,50E-01	1,37E-02	8,95E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	7,31E-01	1,50E-01	1,37E-02	8,95E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	5,42E+00	8,54E-01	1,60E-01	6,44E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	5,42E+00	8,54E-01	1,60E-01	6,44E+00

10. TENA Fix Acute

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,031	0,007	0,008	0,046
	Biogenic	kg CO ₂ eq.	-0,003	0,000	0,003	0,000
	Land use and land transformation	kg CO ₂ eq.	0,00000	0,00001	0,00001	0,00003
	Total	kg CO ₂ eq.	0,029	0,007	0,011	0,046
Acidification potential (AP)		mol H ⁺ eq.	4,64E-05	3,56E-05	7,76E-06	8,97E-05
Eutrophication potential (EP), freshwater		kg P eq.	2,74E-07	2,34E-08	4,75E-08	3,45E-07
Eutrophication potential (EP), marine		kg N eq.	1,48E-05	5,34E-06	3,45E-06	2,36E-05
Eutrophication potential (EP), terrestrial		mol N eq.	1,46E-04	5,66E-05	3,84E-05	2,41E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	6,05E-05	1,50E-05	6,95E-06	8,24E-05
Ozone depletion potential (ODP)		CFC-11 eq.	5,02E-11	1,14E-16	4,69E-13	5,06E-11
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	9,27E-09	1,04E-09	1,10E-10	1,04E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	7,33E-01	1,31E-01	2,34E-02	8,88E-01
Water scarcity potential		m ³ eq.	2,80E-02	1,48E-04	1,15E-03	2,93E-02
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	9,79E-02	2,88E-02	2,00E-03	1,29E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	9,79E-02	2,88E-02	2,00E-03	1,29E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	7,33E-01	1,31E-01	2,35E-02	8,88E-01
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	7,33E-01	1,31E-01	2,35E-02	8,88E-01

11. TENA Fix Original S

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,036	0,007	0,009	0,052
	Biogenic	kg CO ₂ eq.	-0,004	0,000	0,004	0,000
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00002	0,00002	0,00004
	Total	kg CO ₂ eq.	0,032	0,007	0,013	0,052
Acidification potential (AP)		mol H ⁺ eq.	6,84E-05	3,52E-05	9,21E-06	1,13E-04
Eutrophication potential (EP), freshwater		kg P eq.	4,20E-07	2,35E-08	5,41E-08	4,98E-07
Eutrophication potential (EP), marine		kg N eq.	1,93E-05	5,49E-06	4,18E-06	2,90E-05
Eutrophication potential (EP), terrestrial		mol N eq.	1,90E-04	5,84E-05	4,56E-05	2,94E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	7,29E-05	1,52E-05	8,20E-06	9,63E-05
Ozone depletion potential (ODP)		CFC-11 eq.	1,79E-10	1,29E-16	6,92E-13	1,79E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	9,96E-09	1,03E-09	1,39E-10	1,11E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	8,64E-01	1,30E-01	2,86E-02	1,02E+00
Water scarcity potential		m ³ eq.	1,64E-01	1,46E-04	1,32E-03	1,66E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,11E-01	2,81E-02	2,41E-03	1,41E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	1,11E-01	2,81E-02	2,41E-03	1,41E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	8,65E-01	1,30E-01	2,86E-02	1,02E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	8,65E-01	1,30E-01	2,86E-02	1,02E+00

12. TENA Fix Original M

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,041	0,008	0,010	0,059
	Biogenic	kg CO ₂ eq.	-0,004	0,000	0,004	0,000
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00002	0,00002	0,00004
	Total	kg CO ₂ eq.	0,037	0,008	0,015	0,060
Acidification potential (AP)		mol H ⁺ eq.	7,52E-05	4,13E-05	1,02E-05	1,27E-04
Eutrophication potential (EP), freshwater		kg P eq.	4,52E-07	2,75E-08	6,18E-08	5,41E-07
Eutrophication potential (EP), marine		kg N eq.	2,14E-05	6,40E-06	4,58E-06	3,24E-05
Eutrophication potential (EP), terrestrial		mol N eq.	2,12E-04	6,79E-05	5,05E-05	3,30E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	8,27E-05	1,77E-05	9,08E-06	1,09E-04
Ozone depletion potential (ODP)		CFC-11 eq.	1,81E-10	1,48E-16	6,92E-13	1,82E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,11E-08	1,21E-09	1,51E-10	1,24E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	9,85E-01	1,53E-01	3,15E-02	1,17E+00
Water scarcity potential		m ³ eq.	1,65E-01	1,72E-04	1,50E-03	1,66E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,27E-01	3,30E-02	2,67E-03	1,63E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	1,27E-01	3,30E-02	2,67E-03	1,63E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	9,85E-01	1,53E-01	3,16E-02	1,17E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	9,85E-01	1,53E-01	3,16E-02	1,17E+00

13. TENA Fix Original L

one absorbent product						
Environmental impact category						
Parameter		Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP)	Fossil	kg CO ₂ eq.	0,044	0,008	0,011	0,063
	Biogenic	kg CO ₂ eq.	-0,004	0,000	0,004	0,000
	Land use and land transformation	kg CO ₂ eq.	0,00001	0,00002	0,00002	0,00004
	Total	kg CO ₂ eq.	0,040	0,008	0,015	0,064
Acidification potential (AP)		mol H ⁺ eq.	7,85E-05	4,43E-05	1,07E-05	1,34E-04
Eutrophication potential (EP), freshwater		kg P eq.	4,68E-07	2,95E-08	6,57E-08	5,63E-07
Eutrophication potential (EP), marine		kg N eq.	2,24E-05	6,85E-06	4,78E-06	3,41E-05
Eutrophication potential (EP), terrestrial		mol N eq.	2,23E-04	7,27E-05	5,30E-05	3,48E-04
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	8,75E-05	1,90E-05	9,52E-06	1,16E-04
Ozone depletion potential (ODP)		CFC-11 eq.	1,82E-10	1,58E-16	6,92E-13	1,83E-10
Abiotic depletion potential - Minerals and metals (ADP-elements)		kg Sb eq.	1,16E-08	1,29E-09	1,57E-10	1,31E-08
Abiotic depletion potential - Fossil fuels (ADP-fossil fuels)		MJ, net calorific value	1,05E+00	1,64E-01	3,30E-02	1,24E+00
Water scarcity potential		m ³ eq.	1,65E-01	1,84E-04	1,60E-03	1,67E-01
Resources						
Parameter		Unit	Upstream	Core	Downstream	Total
Primary energy resources - Renewable	Used as energy carrier	MJ, net calorific value	1,35E-01	3,55E-02	2,81E-03	1,73E-01
	Used as raw materials	MJ, net calorific value	0,00E+00	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	1,35E-01	3,55E-02	2,81E-03	1,73E-01
Primary energy resources - Non-renewable	Used as energy carrier	MJ, net calorific value	1,05E+00	1,64E-01	3,31E-02	1,24E+00
	Used as raw materials	MJ, net calorific value	(N/A)	(N/A)	(N/A)	(N/A)
	Total	MJ, net calorific value	1,05E+00	1,64E-01	3,31E-02	1,24E+00



References

1. PCR 2011:14 v. 3.01
2. General Programme Instructions for the International EPD® System v. 4.01
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 14020:2022 Environmental labels and declarations – General principles
7. DPCM 12/01/17 – G.U. n. 65 del 18 marzo 2017
8. www.environdec.com

Version	Revision Item
4	
5	<p>New articles added (no new LCA calculations):</p> <p>TENA Fix S, art no 754054 & 754055</p> <p>TENA Fix M, art no 754035 & 754056 & 754057</p> <p>TENA Fix L, art no 754036 & 754058 & 754059</p> <p>TENA Fix XL, art no 754037 & 754060 & 754061</p> <p>TENA Fix XXL, art no 754038 & 754052 & 754053</p> <p>TENA Fix 3XL, art no 754062</p>
6	<p>All LCA calculations recalculated according new GPI on updated specifications.</p> <p>Exchanged some photos.</p>



Use better, use less!

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 are continuously reducing the carbon footprint of our absorbent product assortments over the whole product life cycle.

We strive for sustainable continence care with better products.
Use better, use less.