

# Environmental Impact Report

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## Men - T-shirt

ID: Deadstock T-Shirt | GTIN: N/A

Product weight: 0.23 kg

100% Cotton (Global)

Amount of products in 1 kg: 4.35





The bAwear Score of your product has been calculated. This bAwear score is a combination of your input (primary data) and standard values (secondary data) in the standard product scenario selected. As a result, the impact is calculated considering all essential stages in the textile supply chain, from cradle-to-gate or cradle-to-grave.

## Assignment: Calculate impact of a T-shirt made of deadstock fabric

**Boundary and assumptions:** Attributed 50% of the impact of the production of the dead stock fabric to the second use and assumed a displacement factor of 0.8, meaning some products would not be made due to the higher price of virgin fabrics. This results in a 40% attribution of the impact of virgin production to the deadstock. This include the supply chain steps of fiber production, spinning and knitting.

The bAwear Score is a result of a streamlined LCA, calculated using the RECIPE 2016 midpoint methodology. The impacts are given as a total and per production step in the supply chain. The bAwear score of your product is compared to a benchmark product defined by bAwear. The benchmark is based on the product chosen produced under unfavorable conditions. As a result, the benchmark is likely to have a higher impact than your product.

## Environmental impact per kilogram of product

				
Supply chain steps	Global warming (kg CO <sub>2</sub> -eq)	Fossil Energy (MJ)	Water use (Liter)	Land use (m <sup>2</sup> )
Fiber materials	0.87	6.02	494	3.7
Yarn production	0.94	10.7	2.7	0.012
Fabric production	0.21	2.4	0.66	0.0
Dyeing and finishing	2.23	26.5	95	0.024
Manufacturing	0.84	6.7	3	0.0
Transport	1.65	22.9	4	0.1
Use-phase	0.0	0.0	0	0.0
<b>Total</b>	<b>6.75</b>	<b>75.23</b>	<b>600</b>	<b>3.9</b>

# Your primary data input

## Composition

### Fibres



Fibre 1 Cotton (Global) 100%

### Yarns



Yarn 1 (36Nm, 100%) Vortex spinning for knitting, combed yarn  
Renewable electricity: 0%

### Fabrics



Fabric 1 (100%) Knitting - Circular  
Renewable electricity: 0%  
Renewable electricity: 0%



Fabric 2 (0%) Unknown  
Renewable electricity: 0 %  
Renewable electricity: 0 %



Fabric 3 (0%) Unknown  
Renewable electricity: 0 %  
Renewable electricity: 0 %

## Manufacturing

### Cutting waste



Total cutting waste:  
15%  
Recycling, 100%

### Product finishing

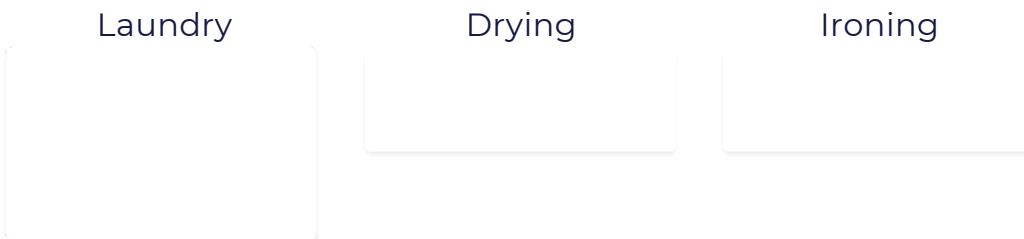


Ironing  
Renewable electricity: 0%

## Production locations

Materials	
<b>Cotton</b>	Türkiye
Production	
<b>Spinning</b>	
<b>Weaving/knitting</b>	
<b>Finishing</b>	
<b>Manufacturing</b>	Portugal
Destination	
<b>Final destination</b>	Netherlands
<b>Transport</b>	Truck, 16-32 ton, EURO 4, 2130km

## Use-phase



### Disclaimer

The calculations of the bAwear Score were performed using SimaPro software. The specified primary data in this report have been used as inputs. In addition, standard data (secondary data) has been used. It may be that these secondary data are not representative of your specific product. This can influence the outcome both positively and negatively. Therefore, the results must be considered as an approximation based on limited primary data. You can not derive any rights from this impact report.