

# Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU	Gender	Wastage Percentage
SHIRTS	25AWJNE54384	Women	5%

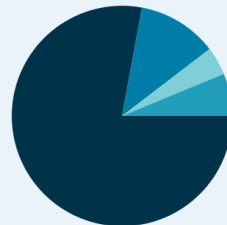
Property Name	Property Value	SQM
Body length	extra long	0.861
Fit	regular	0
Sleeves	long	0.31
Neck	classic collar	0.039
EU SIZE	S woman	0.1935085228292251

## Total Carbon Footprint

**0.78** kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

**0.08** €



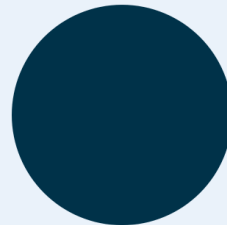
- Raw Material (78.21%)
- Yarn Production (11.74%)
- Fabric Production (4.19%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (6.25%)
- Finishing & Packaging (0.00%)

## Raw Material Carbon Footprint

**0.61** kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

**0.06** €



- Raw Material (100%)

## Transportation Carbon Footprint

0 kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

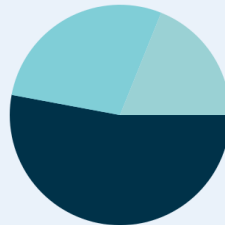
0 €

### Process Carbon Footprint

0.17 kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

0.02 €



- Yarn Production (53.88%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (28.67%)
- Fabric Production (19.24%)
- Finishing & Packaging (0.01%)

\* Current Average Market Value Of High Quality Carbon Credit

## Phases country risk

Layer	Production Phase	Country	Country Risk / Provider
SHIRTING COTTON	Raw Material	LITHUANIA	Moderate Risk
SHIRTING COTTON	Yarn Production	LITHUANIA	Moderate Risk
SHIRTING COTTON	Fabric Production	LITHUANIA	Moderate Risk
SHIRTING COTTON	Cutting & Stitching	LITHUANIA	Moderate Risk
SHIRTING COTTON	Garment Manufacturing	LITHUANIA	Moderate Risk
SHIRTING COTTON	Finishing & Packaging	LITHUANIA	Moderate Risk

## Water Footprint & Land Impact Summary

Production Phase	Green Water (liters)	Blue Water (liters)	Grey Water (liters)
Raw Material	1115.89	288.59	673.38
Yarn Production	0	230.87	471.37
Fabric Production	0	216.44	505.04
Garment Manufacturing	0	317.45	828.26
<b>Total (Liters)</b>	<b>1115.89</b>	<b>1053.35</b>	<b>2478.05</b>

Land Impact Summary	
Total Land Use (m <sup>2</sup> )	0.01

## SHIRTING COTTON - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Cotton generic	96%	2.62	192.3944	504.0734
Elastane/Spandex	4%	10.7	9.474	101.3715
<b>Total</b>	<b>100%</b>	<b>13.32</b>	<b>201.87</b>	<b>605.44</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

## SHIRTING COTTON - Yarn Production

Process Name	Material	
Carding (CO2e g)	Cotton generic (LITHUANIA) 7.6207	Elastane/Spandex (LITHUANIA) 0.3753
Winding (CO2e g)	Cotton generic (LITHUANIA) 17.5277	Elastane/Spandex (LITHUANIA) 0.8631
Sizing (CO2e g)	Cotton generic (LITHUANIA) 0.3647	Elastane/Spandex (LITHUANIA) 0.018
Ring Spinning (CO2e g)	Cotton generic (LITHUANIA) 36.5796	Elastane/Spandex (LITHUANIA) 1.8013
Warping (CO2e g)	Cotton generic (LITHUANIA) 1.2399	Elastane/Spandex (LITHUANIA) 0.0611
Roving (Co2e g)	Cotton generic (LITHUANIA) 3.0483	Elastane/Spandex (LITHUANIA) 0.1501
Dyeing (CO2e g)	Cotton generic (LITHUANIA) 9.4818	Elastane/Spandex (LITHUANIA) 0.4669
Blowing (CO2e g)	Cotton generic (LITHUANIA) 6.8587	Elastane/Spandex (LITHUANIA) 0.3377
Drawing (CO2e g)	Cotton generic (LITHUANIA) 4.5724	Elastane/Spandex (LITHUANIA) 0.2252
<b>Total</b>	<b>87.29379999999999</b>	<b>4.2987</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

## SHIRTING COTTON - Cutting & Stitching

Process Name	Material	
Major cutting	Cotton generic (LITHUANIA) 0.001	Elastane/Spandex (LITHUANIA) 0
<b>Total</b>	<b>0.001</b>	<b>0</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

## SHIRTING COTTON - Garment Manufacturing

Process Name	Material	
Garment dyeing (CO2e g)	Cotton generic (LITHUANIA) 20.1148	Elastane/Spandex (LITHUANIA) 0.9905
Finishing Emissions (CO2g)	Cotton generic (LITHUANIA) 12.2651	Elastane/Spandex (LITHUANIA) 0.604

Process Name	Material	
Laundry Emissions (CO2e g)	Cotton generic (LITHUANIA) 12.2651	Elastane/Spandex (LITHUANIA) 0.604
Washing & Drying Emissions	Cotton generic (LITHUANIA) 1.7989	Elastane/Spandex (LITHUANIA) 0.0886
<b>Total</b>	<b>46.4439</b>	<b>2.2871</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

## SHIRTING COTTON - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Cotton generic (LITHUANIA) 0.0327	Elastane/Spandex (LITHUANIA) 0.0016
Coating (CO2e g)	Cotton generic (LITHUANIA) 0	Elastane/Spandex (LITHUANIA) 0
Bonding (CO2e g)	Cotton generic (LITHUANIA) 0.0679	Elastane/Spandex (LITHUANIA) 0.0033
Weaving (CO2e g)	Cotton generic (LITHUANIA) 31.0717	Elastane/Spandex (LITHUANIA) 1.53
<b>Total</b>	<b>31.1723</b>	<b>1.5349</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

## SHIRTING COTTON - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	LITHUANIA		0
Elastane/Spandex	LITHUANIA	LITHUANIA		0
<b>Total</b>				<b>0</b>

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	LITHUANIA	0.0132	1

## Final Transportation

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	LITHUANIA	UNITED KINGDOM	AIR - 0	0
Elastane/Spandex	LITHUANIA	UNITED KINGDOM	AIR - 0	0
<b>Total</b>				<b>0</b>

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