

# Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU	Gender	Wastage Percentage
PANTS	25AWFCD54956	Women	5%

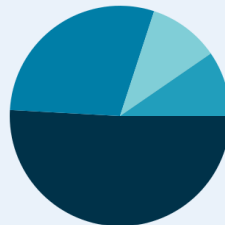
Property Name	Property Value	SQM
Length	long	0.95
Shape	skinny	1.69
Rise	regular	0
Cargo	yes	0.03
EU SIZE	S woman	0.18141289437586086

## Total Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

**0.15** €



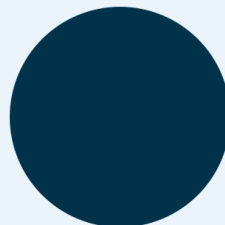
- Raw Material (51.02%)
- Yarn Production (29.22%)
- Fabric Production (10.43%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (9.62%)
- Finishing & Packaging (0.00%)

## Raw Material Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

**0.08** €



- Raw Material (100%)

## Transportation Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

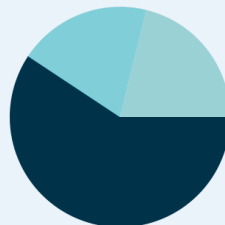
0 €

### Process Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

0.07 €



- Yarn Production (59.65%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (19.63%)
- Fabric Production (21.30%)
- Finishing & Packaging (0.00%)

\* Current Average Market Value Of High Quality Carbon Credit

## Phases country risk

Layer	Production Phase	Country	Country Risk / Provider
DENIM JACQUARD	Raw Material	ITALY	Moderate Risk
DENIM JACQUARD	Yarn Production	ITALY	Moderate Risk
DENIM JACQUARD	Fabric Production	ITALY	Moderate Risk
DENIM JACQUARD	Cutting & Stitching	PORTUGAL	Moderate Risk
DENIM JACQUARD	Garment Manufacturing	PORTUGAL	Moderate Risk
DENIM JACQUARD	Finishing & Packaging	PORTUGAL	Moderate Risk

## Water Footprint & Land Impact Summary

Production Phase	Green Water (liters)	Blue Water (liters)	Grey Water (liters)
Raw Material	1476.65	241.09	542.44
Yarn Production	0	192.87	379.71
Fabric Production	0	180.81	406.83
Garment Manufacturing	0	373.68	1491.72
<b>Total (Liters)</b>	<b>1476.65</b>	<b>988.45</b>	<b>2820.7</b>

Land Impact Summary	
Total Land Use (m2)	0.01

## DENIM JACQUARD - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Organic cotton	100%	2.5	301.3571	753.3929
<b>Total</b>	<b>100%</b>	<b>2.5</b>	<b>301.36</b>	<b>753.39</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## DENIM JACQUARD - Yarn Production

Process Name	Material
Carding (CO2e g)	Organic cotton (ITALY) 37.4955
Winding (CO2e g)	Organic cotton (ITALY) 86.2396
Sizing (CO2e g)	Organic cotton (ITALY) 1.7943
Ring Spinning (CO2e g)	Organic cotton (ITALY) 179.9782
Warping (CO2e g)	Organic cotton (ITALY) 6.1007
Roving (Co2e g)	Organic cotton (ITALY) 14.9982
Dyeing (CO2e g)	Organic cotton (ITALY) 46.6521
Blowing (CO2e g)	Organic cotton (ITALY) 33.7459
Drawing (CO2e g)	Organic cotton (ITALY) 22.4973
<b>Total</b>	<b>429.5018</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## DENIM JACQUARD - Cutting & Stitching

Process Name	Material
Major cutting	Organic cotton (PORTUGAL) 0.003
<b>Total</b>	<b>0.003</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	PORTUGAL	PORTUGAL		0
<b>Total</b>				<b>0</b>

## DENIM JACQUARD - Garment Manufacturing

Process Name	Material
Garment dyeing (CO2e g)	Organic cotton (PORTUGAL) 61.1604
Finishing Emissions (CO2g)	Organic cotton (PORTUGAL) 37.2929
Laundry Emissions (CO2e g)	Organic cotton (PORTUGAL) 37.2929
Washing & Drying Emissions	Organic cotton (PORTUGAL) 5.4696
<b>Total</b>	<b>141.2158</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	PORTUGAL	PORTUGAL		0
<b>Total</b>				<b>0</b>

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	PORTUGAL	0.1526	16

## DENIM JACQUARD - Fabric Production

Process Name	Material
Heat Setting (CO2e g)	Organic cotton (ITALY) 0.1609
Coating (CO2e g)	Organic cotton (ITALY) 0
Bonding (CO2e g)	Organic cotton (ITALY) 0.3339
Weaving (CO2e g)	Organic cotton (ITALY) 152.8785
<b>Total</b>	<b>153.3733</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	ITALY	PORTUGAL	Truck/Heavy goods vehicle - 0 Aircraft - 0	0
<b>Total</b>				<b>0</b>

## DENIM JACQUARD - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	PORTUGAL	PORTUGAL		0
<b>Total</b>				<b>0</b>

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	PORTUGAL	0.0257	1

## Final Transportation

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Organic cotton	PORTUGAL	UNITED KINGDOM	AIR - 0	0
<b>Total</b>				<b>0</b>

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