



# Product Carbon Footprint Calculation Results

02/03/2025 - 16:16

Product	SKU	Gender	Wastage Percentage
PANTS	CASTELL TROUSER	Women	5%

Property Name	Property Value	SQM
Length	long	0.95
Shape	loose	2.89
Rise	regular	0
Cargo	yes	0.03
EU SIZE	L woman	0.1893861454046681

## External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Cotton generic	98%	2.62	202.2439	529.879
Elastane generic	2%	10.7	5.0029	53.5315
<b>Total</b>	<b>100%</b>	<b>13.32</b>	<b>207.25</b>	<b>583.41</b>

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

## External - Yarn Production

Process Name	Material	
Carding (CO2e g)	Cotton generic (ITALY) 25.1636	Elastane generic (ITALY) 0.6225
Winding (CO2e g)	Cotton generic (ITALY) 57.8763	Elastane generic (ITALY) 1.4317
Sizing (CO2e g)	Cotton generic (ITALY) 1.2042	Elastane generic (ITALY) 0.0298
Ring Spinning (CO2e g)	Cotton generic (ITALY) 120.7852	Elastane generic (ITALY) 2.9879
Warping (CO2e g)	Cotton generic (ITALY) 4.0942	Elastane generic (ITALY) 0.1013
Roving (Co2e g)	Cotton generic (ITALY) 10.0654	Elastane generic (ITALY) 0.249
Yarn Production - Dyeing (CO2e g)	Cotton generic (ITALY) 31.3087	Elastane generic (ITALY) 0.7745
Blowing (CO2e g)	Cotton generic (ITALY) 22.6472	Elastane generic (ITALY) 0.5602

Process Name	Material	
Drawing (CO2e g)	Cotton generic (ITALY) 15.0982	Elastane generic (ITALY) 0.3735
<b>Total</b>	<b>288.24300000000005</b>	<b>7.130399999999999</b>

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

## External - Cutting & Stitching

Process Name	Material	
Major cutting	Cotton generic (ITALY) 0.0033	Elastane generic (ITALY) 0.0001
<b>Total</b>	<b>0.0033</b>	<b>0.0001</b>

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

## External - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Cotton generic (ITALY) 0.108	Elastane generic (ITALY) 0.0027
Weaving (CO2e g)	Cotton generic (ITALY) 102.5983	Elastane generic (ITALY) 2.538
<b>Total</b>	<b>102.7063</b>	<b>2.5406999999999997</b>

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

## External - Garment Manufacturing

Process Name	Material	
Finishing Emissions (CO2g)	Cotton generic (ITALY) 40.4993	Elastane generic (ITALY) 1.0018
Laundry Emissions (CO2e g)	Cotton generic (ITALY) 40.4993	Elastane generic (ITALY) 1.0018
Washing & Drying Emissions	Cotton generic (ITALY) 5.9399	Elastane generic (ITALY) 0.1469
<b>Total</b>	<b>86.93849999999999</b>	<b>2.1505</b>

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

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	ITALY	0.1908	20
Addition	Button Plastic Small Size	ITALY	0.049	6

## External - Finishing & Packaging

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

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	ITALY	0.0416	1

## Fabric\_2 - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Acetate	68%	38	144.585	5494.2296
Polyester generic	32%	2.8	44.0259	123.2725
<b>Total</b>	<b>100%</b>	<b>40.8</b>	<b>188.61</b>	<b>5617.5</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## Fabric\_2 - Yarn Production

Process Name	Material	
Carding (CO2e g)	Acetate (ITALY) 17.9896	Polyester generic (ITALY) 5.4778
Winding (CO2e g)	Acetate (ITALY) 41.376	Polyester generic (ITALY) 12.5989
Sizing (CO2e g)	Acetate (ITALY) 0.8609	Polyester generic (ITALY) 0.2621
Ring Spinning (CO2e g)	Acetate (ITALY) 86.3499	Polyester generic (ITALY) 26.2934
Warping (CO2e g)	Acetate (ITALY) 2.927	Polyester generic (ITALY) 0.8913
Roving (Co2e g)	Acetate (ITALY) 7.1958	Polyester generic (ITALY) 2.1911
Yarn Production - Dyeing (CO2e g)	Acetate (ITALY) 22.3827	Polyester generic (ITALY) 6.8155
Blowing (CO2e g)	Acetate (ITALY) 16.1906	Polyester generic (ITALY) 4.93
Drawing (CO2e g)	Acetate (ITALY) 10.7937	Polyester generic (ITALY) 3.2867
<b>Total</b>	<b>206.06619999999998</b>	<b>62.7468</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## Fabric\_2 - Cutting & Stitching

Process Name	Material	
Major cutting	Acetate (ITALY) 0.0023	Polyester generic (ITALY) 0.0007
<b>Total</b>	<b>0.0023</b>	<b>0.0007</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## Fabric\_2 - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Acetate (ITALY) 0.0772	Polyester generic (ITALY) 0.0235
Weaving (CO2e g)	Acetate (ITALY) 73.348	Polyester generic (ITALY) 22.3343
<b>Total</b>	<b>73.4252</b>	<b>22.357799999999997</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

## Fabric\_2 - Garment Manufacturing

Process Name	Material	
Finishing Emissions (CO2g)	Acetate (ITALY) 28.9531	Polyester generic (ITALY) 8.8162
Laundry Emissions (CO2e g)	Acetate (ITALY) 28.9531	Polyester generic (ITALY) 8.8162
Washing & Drying Emissions	Acetate (ITALY) 4.2465	Polyester generic (ITALY) 1.293
<b>Total</b>	<b>62.152699999999996</b>	<b>18.9254</b>

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0
<b>Total</b>				<b>0</b>

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	ITALY	0.1908	20
Addition	Button Plastic Small Size	ITALY	0.049	6

## Fabric\_2 - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Acetate	ITALY	ITALY		0
Polyester generic	ITALY	ITALY		0

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

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	ITALY	0.0416	1

## Final Transportation

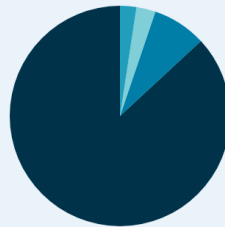
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	UNITED KINGDOM	AIR - 0	0
Elastane generic	ITALY	UNITED KINGDOM	AIR - 0	0
<b>Total</b>				<b>0</b>

### Total Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

**0.71** €



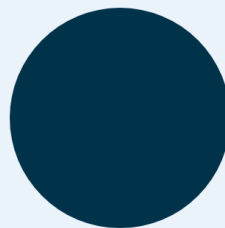
- Raw Material (86.83%)
- Yarn Production (7.90%)
- Fabric Production (2.82%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (2.39%)
- Finishing & Packaging (0.00%)

### Raw Material Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

**0.62** €



- Raw Material (100%)

### Transportation Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

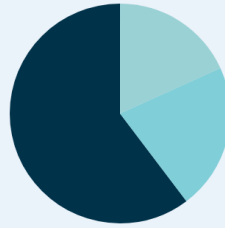
**0** €

### Process Carbon Footprint

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

Estimated Offsetting Cost In EUR \*

**0.09** €



- Yarn Production (60.02%)
- Cutting & Stitching (0.00%)
- Fabric Production (21.39%)
- Garment Manufacturing (18.13%)
- Finishing & Packaging (0.00%)

\* Current Average Market Value Of High Quality Carbon Credit

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