



Product Carbon Footprint Calculation Results

02/03/2025 - 16:16

Product	SKU
DRESSES	CASTELL DRESS

Layer	Gender	Wastage Percentage
Tops	Women	5%

Property Name	Property Value	SQM
Upper body length	regular	0.6
Fit	regular	0
Sleeves	short	0.09
Neck	polo	0.03
EU SIZE	L woman	0.19897744204083448

Layer	Gender	Wastage Percentage
Skirts	Women	5%

Property Name	Property Value	SQM
Length	calf	0.5658
Shape	tube straight	0
Rise	regular	0
EU SIZE	L woman	0.19897744204083448

External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Cotton generic	98%	2.62	228.0477	597.4849
Elastane generic	2%	10.7	5.6413	60.3614
Total	100%	13.32	233.69	657.85

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

External - Yarn Production

Process Name	Material	
Carding (CO2e g)	Cotton generic (ITALY) 28.3741	Elastane generic (ITALY) 0.7019
Winding (CO2e g)	Cotton generic (ITALY) 65.2605	Elastane generic (ITALY) 1.6144
Sizing (CO2e g)	Cotton generic (ITALY) 1.3578	Elastane generic (ITALY) 0.0336
Ring Spinning (CO2e g)	Cotton generic (ITALY) 136.1959	Elastane generic (ITALY) 3.3691
Warping (CO2e g)	Cotton generic (ITALY) 4.6166	Elastane generic (ITALY) 0.1142
Roving (Co2e g)	Cotton generic (ITALY) 11.3497	Elastane generic (ITALY) 0.2808
Yarn Production - Dyeing (CO2e g)	Cotton generic (ITALY) 35.3033	Elastane generic (ITALY) 0.8733
Blowing (CO2e g)	Cotton generic (ITALY) 25.5367	Elastane generic (ITALY) 0.6317
Drawing (CO2e g)	Cotton generic (ITALY) 17.0245	Elastane generic (ITALY) 0.4211
Total	325.0191	8.040099999999999

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

External - Cutting & Stitching

Process Name	Material	
Major cutting	Cotton generic (ITALY) 0.0037	Elastane generic (ITALY) 0.0001
Total	0.0037	0.0001

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

External - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Cotton generic (ITALY) 0.1218	Elastane generic (ITALY) 0.003
Weaving (CO2e g)	Cotton generic (ITALY) 115.6886	Elastane generic (ITALY) 2.8618
Total	115.81039999999999	2.8648000000000002

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

External - Garment Manufacturing

Process Name	Material	
Finishing Emissions (CO2g)	Cotton generic (ITALY) 45.6665	Elastane generic (ITALY) 1.1297
Laundry Emissions (CO2e g)	Cotton generic (ITALY) 45.6665	Elastane generic (ITALY) 1.1297
Washing & Drying Emissions	Cotton generic (ITALY) 6.6978	Elastane generic (ITALY) 0.1657
Total	98.0308	2.4251

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

Production Group	Process Name	Country	CO2e	Value
Addition	Button Metal Medium Size	ITALY	0.3578	9

External - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	ITALY		0
Elastane generic	ITALY	ITALY		0
Total				0

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	163.0322	6195.2243
Polyester generic	32%	2.8	49.643	139.0005
Total	100%	40.8	212.68	6334.22

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

Fabric_2 - Yarn Production

Process Name	Material	
Carding (CO2e g)	Acetate (ITALY) 20.2848	Polyester generic (ITALY) 6.1767
Winding (CO2e g)	Acetate (ITALY) 46.655	Polyester generic (ITALY) 14.2064
Sizing (CO2e g)	Acetate (ITALY) 0.9707	Polyester generic (ITALY) 0.2956
Ring Spinning (CO2e g)	Acetate (ITALY) 97.367	Polyester generic (ITALY) 29.6481
Warping (CO2e g)	Acetate (ITALY) 3.3004	Polyester generic (ITALY) 1.005
Roving (Co2e g)	Acetate (ITALY) 8.1139	Polyester generic (ITALY) 2.4707

Process Name	Material	
Yarn Production - Dyeing (CO2e g)	Acetate (ITALY) 25.2385	Polyester generic (ITALY) 7.6851
Blowing (CO2e g)	Acetate (ITALY) 18.2563	Polyester generic (ITALY) 5.559
Drawing (CO2e g)	Acetate (ITALY) 12.1709	Polyester generic (ITALY) 3.706
Total	232.3575	70.7526

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

Fabric_2 - Cutting & Stitching

Process Name	Material	
Major cutting	Acetate (ITALY) 0.0026	Polyester generic (ITALY) 0.0008
Total	0.0026	0.0008

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

Fabric_2 - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Acetate (ITALY) 0.0871	Polyester generic (ITALY) 0.0265
Weaving (CO2e g)	Acetate (ITALY) 82.7062	Polyester generic (ITALY) 25.1839
Total	82.7933	25.2104

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

Fabric_2 - Garment Manufacturing

Process Name	Material	
Finishing Emissions (CO2g)	Acetate (ITALY) 32.6472	Polyester generic (ITALY) 9.941
Laundry Emissions (CO2e g)	Acetate (ITALY) 32.6472	Polyester generic (ITALY) 9.941
Washing & Drying Emissions	Acetate (ITALY) 4.7883	Polyester generic (ITALY) 1.458
Total	70.08269999999999	21.34

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
Total				0

Production Group	Process Name	Country	CO2e	Value
Addition	Button Metal Medium Size	ITALY	0.3578	9

Fabric_2 - Finishing & Packaging

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

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

Final Transportation

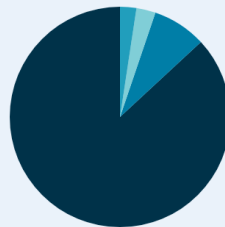
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	UNITED KINGDOM	AIR - 0	0
Elastane generic	ITALY	UNITED KINGDOM	AIR - 0	0
Total				0

Total Carbon Footprint

8.05 kg CO₂e

Estimated Offsetting Cost In EUR *

0.81 €



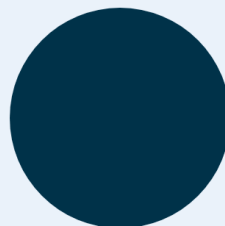
- Raw Material (86.83%)
- Yarn Production (7.90%)
- Fabric Production (2.82%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (2.39%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

6.99 kg CO₂e

Estimated Offsetting Cost In EUR *

0.7 €



- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

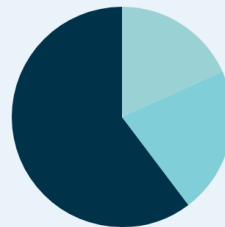
0 €

Process Carbon Footprint

1.06 kg CO₂e

Estimated Offsetting Cost In EUR *

0.11 €



- Yarn Production (60.02%)
- Cutting & Stitching (0.00%)
- Fabric Production (21.38%)
- Garment Manufacturing (18.14%)
- Finishing & Packaging (0.00%)

* Current Average Market Value Of High Quality Carbon Credit

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