



Product Carbon Footprint Calculation Results

02/03/2025 - 16:16

Product	SKU	Gender	Wastage Percentage
BLAZER	CASTELL JACKET	Women	5%

Property Name	Property Value	SQM
Body length	extra short	0.492
Fit	slim	0.25
Pockets	2 jettted	0
Sleeves	regular	0.2624
Front	double breasted	4
EU SIZE	L woman	0.19897744204083448

External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Cotton generic	98%	2.62	155.3236	406.9477
Elastane generic	2%	10.7	3.8423	41.1122
Total	100%	13.32	159.17	448.06

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) 19.3257	Elastane generic (ITALY) 0.4781
Winding (CO2e g)	Cotton generic (ITALY) 44.449	Elastane generic (ITALY) 1.0995
Sizing (CO2e g)	Cotton generic (ITALY) 0.9248	Elastane generic (ITALY) 0.0229
Ring Spinning (CO2e g)	Cotton generic (ITALY) 92.7632	Elastane generic (ITALY) 2.2947
Warping (CO2e g)	Cotton generic (ITALY) 3.1444	Elastane generic (ITALY) 0.0778
Roving (Co2e g)	Cotton generic (ITALY) 7.7303	Elastane generic (ITALY) 0.1912
Yarn Production - Dyeing (CO2e g)	Cotton generic (ITALY) 24.0451	Elastane generic (ITALY) 0.5948

Process Name	Material	
Blowing (CO2e g)	Cotton generic (ITALY) 17.3931	Elastane generic (ITALY) 0.4303
Drawing (CO2e g)	Cotton generic (ITALY) 11.5954	Elastane generic (ITALY) 0.2868
Total	221.37099999999998	5.476100000000001

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) 0.0025	Elastane generic (ITALY) 0.0001
Total	0.0025	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) 0.0829	Elastane generic (ITALY) 0.0021
Weaving (CO2e g)	Cotton generic (ITALY) 78.7956	Elastane generic (ITALY) 1.9492
Total	78.87849999999999	1.9513

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) 31.1035	Elastane generic (ITALY) 0.7694
Laundry Emissions (CO2e g)	Cotton generic (ITALY) 31.1035	Elastane generic (ITALY) 0.7694
Washing & Drying Emissions	Cotton generic (ITALY) 4.5619	Elastane generic (ITALY) 0.1128
Total	66.7689	1.6516

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 Small Size	ITALY	0.1988	10

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	111.0414	4219.5751
Polyester generic	32%	2.8	33.8119	94.6734
Total	100%	40.8	144.85	4314.25

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) 13.816	Polyester generic (ITALY) 4.2069
Winding (CO2e g)	Acetate (ITALY) 31.7768	Polyester generic (ITALY) 9.676
Sizing (CO2e g)	Acetate (ITALY) 0.6612	Polyester generic (ITALY) 0.2013
Ring Spinning (CO2e g)	Acetate (ITALY) 66.3168	Polyester generic (ITALY) 20.1933
Warping (CO2e g)	Acetate (ITALY) 2.2479	Polyester generic (ITALY) 0.6845
Roving (Co2e g)	Acetate (ITALY) 5.5264	Polyester generic (ITALY) 1.6828
Yarn Production - Dyeing (CO2e g)	Acetate (ITALY) 17.1899	Polyester generic (ITALY) 5.2343
Blowing (CO2e g)	Acetate (ITALY) 12.4344	Polyester generic (ITALY) 3.7863
Drawing (CO2e g)	Acetate (ITALY) 8.2896	Polyester generic (ITALY) 2.5242
Total	158.25900000000001	48.1896

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) 0.0018	Polyester generic (ITALY) 0.0005
Total	0.0018	0.0005

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) 0.0593	Polyester generic (ITALY) 0.0181
Weaving (CO2e g)	Acetate (ITALY) 56.3313	Polyester generic (ITALY) 17.1528
Total	56.3906	17.1709

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) 22.2361	Polyester generic (ITALY) 6.7708
Laundry Emissions (CO2e g)	Acetate (ITALY) 22.2361	Polyester generic (ITALY) 6.7708
Washing & Drying Emissions	Acetate (ITALY) 3.2613	Polyester generic (ITALY) 0.9931
Total	47.7335	14.5347

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
Addition	Button Metal Small Size	ITALY	0.1988	10

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

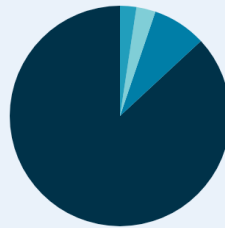
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Cotton generic	ITALY	UNITED KINGDOM	AIR - 0	0
Elastane generic	ITALY	UNITED KINGDOM	AIR - 0	0
Total				0

Total Carbon Footprint

5.48 kg CO₂e

Estimated Offsetting Cost In EUR *

0.55 €



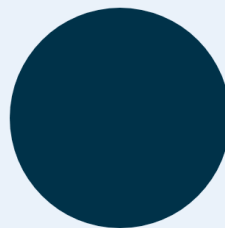
- Raw Material (86.86%)
- Yarn Production (7.91%)
- Fabric Production (2.82%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (2.39%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

4.76 kg CO₂e

Estimated Offsetting Cost In EUR *

0.48 €



- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

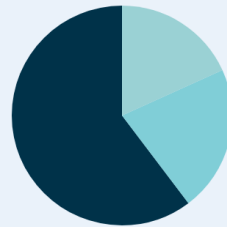
0 €

Process Carbon Footprint

0.72 kg CO₂e

Estimated Offsetting Cost In EUR *

0.07 €



- Yarn Production (60.18%)
- Cutting & Stitching (0.00%)
- Fabric Production (21.44%)
- Garment Manufacturing (18.18%)
- Finishing & Packaging (0.01%)

* Current Average Market Value Of High Quality Carbon Credit

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