Product Carbon Footprint Calculation Results

02/04/2025 - 15:45

Product	SKU	Gender	Wastage Percentage
OUTWEAR	FRANKEL JACKET	Women	5%

Property Name	Property Value	SQM
Body length	regular	0.56
Fit	loose	2.56
Sleeves	long	0.3
Neck	regular reverse	0.03
Hood	no	0
EU SIZE	L woman	0.19897744204083448

External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Polyester generic	62%	2.8	73.2783	205.1792
Polyamide	23%	4.6	9.885	45.4712
Metallic fiber	15%	21.1	64.4677	1360.2686
Total	**100%**	**28.5**	**147.63**	**1610.92**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	ITALY	ITALY		0
Total				**0**

External - Yarn Production

Process Name	Material		
Carding (CO2e g)	Polyester generic (ITALY) 9.1174	Polyamide (ITALY) 1.2299	Metallic fiber (ITALY) 8.0212
Winding (CO2e g)	Polyester generic (ITALY) 20.9701	Polyamide (ITALY) 2.8288	Metallic fiber (ITALY) 18.4488
Sizing (CO2e g)	Polyester generic (ITALY) 0.4363	Polyamide (ITALY) 0.0589	Metallic fiber (ITALY) 0.3838

Process Name	Material		
Ring Spinning (CO2e g)	Polyester generic (ITALY) 43.7637	Polyamide (ITALY) 5.9036	Metallic fiber (ITALY) 38.5018
Warping (CO2e g)	Polyester generic (ITALY) 1.4834	Polyamide (ITALY) 0.2001	Metallic fiber (ITALY) 1.3051
Roving (Co2e g)	Polyester generic (ITALY) 3.647	Polyamide (ITALY) 0.492	Metallic fiber (ITALY) 3.2085
Yarn Production - Dyeing (CO2e g)	Polyester generic (ITALY) 11.344	Polyamide (ITALY) 1.5303	Metallic fiber (ITALY) 9.98
Blowing (CO2e g)	Polyester generic (ITALY) 8.2057	Polyamide (ITALY) 1.1069	Metallic fiber (ITALY) 7.2191
Drawing (CO2e g)	Polyester generic (ITALY) 5.4705	Polyamide (ITALY) 0.738	Metallic fiber (ITALY) 4.8127
Total	**104.4381**	**14.0885**	**91.88100000000001**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	ITALY	ITALY		0
Total				**0**

External - Pattern Making & Cutting

Process Name	Material		
Cutting Emissions	Polyester generic (ITALY) 14.674	Polyamide (ITALY) 1.9795	Metallic fiber (ITALY) 12.9097
Pattern Making (CO2e g)	Polyester generic (ITALY) 14.674	Polyamide (ITALY) 1.9795	Metallic fiber (ITALY) 12.9097
Total	**29.348**	**3.959**	**25.8194**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	ITALY	ITALY		0
Total				**0**

Production Group	Process Name	Country	CO2e	Value
Addition	Button Metal Medium Size	ITALY	0.1192	3

External - Spinning & Weaving

Process Name	Material		
Spinning (CO2e g)	Polyester generic (ITALY) 37.1741	Polyamide (ITALY) 5.0147	Metallic fiber (ITALY) 32.7045
Weaving(CO2e g)	Polyester generic (ITALY) 0.0391	Polyamide (ITALY) 0.0053	Metallic fiber (ITALY) 0.0344
Total	**37.2132**	**5.0200000000000005**	**32.7389**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	ITALY	ITALY		0
Total				**0**

External - Stitching & Pressing

Process Name	Material		
Stitching(CO2e g)	Polyester generic (ITALY) 37.1741	Polyamide (ITALY) 5.0147	Metallic fiber (ITALY) 32.7045
Pressing (CO2e g)	Polyester generic (ITALY) 0.0391	Polyamide (ITALY) 0.0053	Metallic fiber (ITALY) 0.0344
Total	**37.2132**	**5.0200000000000005**	**32.7389**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	ITALY	ITALY		0
Total				**0**

External - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	ITALY		0
Polyamide	ITALY	ITALY		0
Metallic fiber	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
Viscose generic	70%	14.54	75.2123	1093.5872
Silk generic	30%	52.5	22.5637	1184.5941
Total	**100%**	**67.04**	**97.78**	**2278.18**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	CHINA	CHINA		0
Silk generic	CHINA	CHINA		0
Total				**0**

Fabric_2 - Yarn Production

Process Name	Material	
Carding (CO2e g)	Viscose generic (CHINA) 19.3821	Silk generic (CHINA) 5.8146
Winding (CO2e g)	Viscose generic (CHINA) 44.5787	Silk generic (CHINA) 13.3736
Sizing (CO2e g)	Viscose generic (CHINA) 0.9275	Silk generic (CHINA) 0.2783
Ring Spinning (CO2e g)	Viscose generic (CHINA) 93.0339	Silk generic (CHINA) 27.9102
Warping (CO2e g)	Viscose generic (CHINA) 3.1535	Silk generic (CHINA) 0.9461
Roving (Co2e g)	Viscose generic (CHINA) 7.7528	Silk generic (CHINA) 2.3258
Yarn Production - Dyeing (CO2e g)	Viscose generic (CHINA) 24.1153	Silk generic (CHINA) 7.2346
Blowing (CO2e g)	Viscose generic (CHINA) 17.4439	Silk generic (CHINA) 5.2332
Drawing (CO2e g)	Viscose generic (CHINA) 11.6292	Silk generic (CHINA) 3.4888
Total	**222.0169**	**66.6052**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	CHINA	CHINA		0
Silk generic	CHINA	CHINA		0
Total				**0**

Fabric_2 - Pattern Making & Cutting

Process Name	Material	
Cutting Emissions	Viscose generic (CHINA) 31.1943	Silk generic (CHINA) 9.3583
Pattern Making (CO2e g)	Viscose generic (CHINA) 31.1943	Silk generic (CHINA) 9.3583
Total	**62.3886**	**18.7166**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	CHINA	CHINA		0
Silk generic	CHINA	CHINA		0
Total				**0**

Production Group	Process Name	Country	CO2e	Value
Addition	Button Metal Medium Size	ITALY	0.1192	3

Fabric_2 - Spinning & Weaving

Process Name	Material	
Spinning (CO2e g)	Viscose generic (CHINA) 79.0256	Silk generic (CHINA) 23.7077
Weaving(CO2e g)	Viscose generic (CHINA) 0.0832	Silk generic (CHINA) 0.025
Total	**79.1088**	**23.732699999999998**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	CHINA	CHINA		0
Silk generic	CHINA	CHINA		0
Total				**0**

Fabric_2 - Stitching & Pressing

Process Name	Material	
Stitching(CO2e g)	Viscose generic (CHINA) 79.0256	Silk generic (CHINA) 23.7077
Pressing (CO2e g)	Viscose generic (CHINA) 0.0832	Silk generic (CHINA) 0.025
Total	**79.1088**	**23.732699999999998**

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	CHINA	ITALY	Truck/Heavy goods vehicle - 0 Aircraft - 0	0
Silk generic	CHINA	ITALY	Truck/Heavy goods vehicle - 0 Aircraft - 0	0
Total				**0**

Fabric_2 - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	ITALY	ITALY		0
Silk generic	ITALY	ITALY		0
Total				**0**

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

Final Transportation

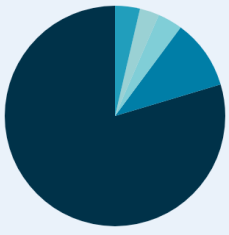
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	UNITED KINGDOM	AIR - 0	0
Polyamide	ITALY	UNITED KINGDOM	AIR - 0	0
Metallic fiber	ITALY	UNITED KINGDOM	AIR - 0	0
Total				**0**

Total Carbon Footprint

4.89 kg CO_2e

Estimated Offsetting Cost In EUR *

0.49 €



- Raw Material (79.55%)
- Yarn Production (10.21%)
- Spinning & Weaving (3.64%)
- Pattern Making & Cutting (2.87%)
- Stitching & Pressing (3.64%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

3.89 kg CO_2e

Estimated Offsetting Cost In EUR *

0.39 €

- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO_2e

Estimated Offsetting Cost In EUR *

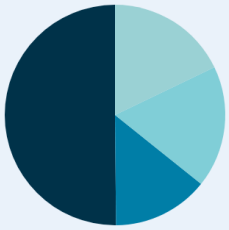
0 €

Process Carbon Footprint

1 kg CO_2e

Estimated Offsetting Cost In EUR *

0.1 €



- Yarn Production (49.90%)
- Pattern Making & Cutting (14.04%)
- Spinning & Weaving (17.78%)
- Stitching & Pressing (17.78%)
- Finishing & Packaging (0.00%)

* Current Average Market Value Of High Quality Carbon Credit

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