Product Carbon Footprint Calculation Results

02/04/2025 - 15:45

Product	SKU	Gender	Wastage Percentage
SKIRTS	FRANKEL SKIRT	Women	5%

Property Name	Property Value	SQM
Length	knees	0.4761
Rise	high	0.09
Shape	circle	324
EU SIZE	L woman	0.1893861454046681

External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Polyester generic	62%	2.8	118.4473	331.6523
Polyamide	23%	4.6	15.9782	73.4998
Metallic fiber	15%	21.1	104.2058	2198.7424
Total	**100%**	**28.5**	**238.63**	**2603.89**

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) 14.7374	Polyamide (ITALY) 1.988	Metallic fiber (ITALY) 12.9655
Winding (CO2e g)	Polyester generic (ITALY) 33.8961	Polyamide (ITALY) 4.5725	Metallic fiber (ITALY) 29.8206
Sizing (CO2e g)	Polyester generic (ITALY) 0.7052	Polyamide (ITALY) 0.0951	Metallic fiber (ITALY) 0.6205
Ring Spinning (CO2e g)	Polyester generic (ITALY) 70.7397	Polyamide (ITALY) 9.5426	Metallic fiber (ITALY) 62.2344

Process Name	Material		
Warping (CO2e g)	Polyester generic (ITALY) 2.3978	Polyamide (ITALY) 0.3235	Metallic fiber (ITALY) 2.1095
Roving (Co2e g)	Polyester generic (ITALY) 5.895	Polyamide (ITALY) 0.7952	Metallic fiber (ITALY) 5.1862
Yarn Production - Dyeing (CO2e g)	Polyester generic (ITALY) 18.3364	Polyamide (ITALY) 2.4735	Metallic fiber (ITALY) 16.1317
Blowing (CO2e g)	Polyester generic (ITALY) 13.2637	Polyamide (ITALY) 1.7892	Metallic fiber (ITALY) 11.6689
Drawing (CO2e g)	Polyester generic (ITALY) 8.8425	Polyamide (ITALY) 1.1928	Metallic fiber (ITALY) 7.7793
Total	**168.8138**	**22.772400000000005**	**148.5166**

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 - Cutting & Stitching

Process Name	Material		
Major cutting	Polyester generic (ITALY) 0.0019	Polyamide (ITALY) 0.0003	Metallic fiber (ITALY) 0.0017
Total	**0.0019**	**0.0003**	**0.0017**

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 - Fabric Production

Process Name	Material		
Heat Setting (CO2e g)	Polyester generic (ITALY) 0.0633	Polyamide (ITALY) 0.0085	Metallic fiber (ITALY) 0.0556
Weaving (CO2e g)	Polyester generic (ITALY) 60.0883	Polyamide (ITALY) 8.1058	Metallic fiber (ITALY) 52.8636
Total	**60.151599999999995**	**8.1143**	**52.9192**

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 - Garment Manufacturing

Process Name	Material		
Finishing Emissions (CO2g)	Polyester generic (ITALY) 23.7191	Polyamide (ITALY) 3.1996	Metallic fiber (ITALY) 20.8672
Laundry Emissions (CO2e g)	Polyester generic (ITALY) 23.7191	Polyamide (ITALY) 3.1996	Metallic fiber (ITALY) 20.8672
Washing & Drying Emissions	Polyester generic (ITALY) 3.4788	Polyamide (ITALY) 0.4693	Metallic fiber (ITALY) 3.0605
Total	**50.917**	**6.8685**	**44.7949**

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	Zip (cm)	ITALY	0.1908	20

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	121.5734	1767.6777
Silk generic	30%	52.5	36.472	1914.7816
Total	**100%**	**67.04**	**158.05**	**3682.46**

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) 31.3292	Silk generic (CHINA) 9.3988
Winding (CO2e g)	Viscose generic (CHINA) 72.0572	Silk generic (CHINA) 21.6172

Process Name	Material	
Sizing (CO2e g)	Viscose generic (CHINA) 1.4992	Silk generic (CHINA) 0.4498
Ring Spinning (CO2e g)	Viscose generic (CHINA) 150.3803	Silk generic (CHINA) 45.1141
Warping (CO2e g)	Viscose generic (CHINA) 5.0974	Silk generic (CHINA) 1.5292
Roving (Co2e g)	Viscose generic (CHINA) 12.5317	Silk generic (CHINA) 3.7595
Yarn Production - Dyeing (CO2e g)	Viscose generic (CHINA) 38.98	Silk generic (CHINA) 11.694
Blowing (CO2e g)	Viscose generic (CHINA) 28.1963	Silk generic (CHINA) 8.4589
Drawing (CO2e g)	Viscose generic (CHINA) 18.7975	Silk generic (CHINA) 5.6393
Total	**358.8688**	**107.66080000000001**

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

Fabric_2 - Cutting & Stitching

Process Name	Material	
Major cutting	Viscose generic (ITALY) 0.002	Silk generic (ITALY) 0.0006
Total	**0.002**	**0.0006**

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

Fabric_2 - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Viscose generic (CHINA) 0.1345	Silk generic (CHINA) 0.0403
Weaving (CO2e g)	Viscose generic (CHINA) 127.7372	Silk generic (CHINA) 38.3212
Total	**127.8717**	**38.3615**

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 - Garment Manufacturing

Process Name	Material

Process Name	Material	
Finishing Emissions (CO2g)	Viscose generic (ITALY) 24.3451	Silk generic (ITALY) 7.3035
Laundry Emissions (CO2e g)	Viscose generic (ITALY) 24.3451	Silk generic (ITALY) 7.3035
Washing & Drying Emissions	Viscose generic (ITALY) 3.5706	Silk generic (ITALY) 1.0712
Total	**52.260799999999996**	**15.678199999999999**

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
Addition	Zip (cm)	ITALY	0.1908	20

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

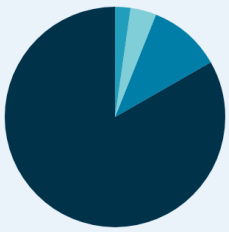
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Polyester generic	ITALY	UNITED KINGDOM	AIR - 0	0
Polyamide	ITALY	UNITED KINGDOM	AIR - 0	0
Metallic fiber	ITALY	UNITED KINGDOM	AIR - 0	0
Total				**0**

Total Carbon Footprint

7.55 kg CO_2e

Estimated Offsetting Cost In EUR *

0.76 €



- Raw Material (83.31%)
- Yarn Production (10.68%)
- Fabric Production (3.81%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (2.26%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

6.29 kg CO_2e

Estimated Offsetting Cost In EUR *

0.63 €

Transportation Carbon Footprint

0 kg CO_2e

Estimated Offsetting Cost In EUR *

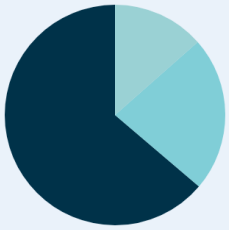
0 €

Process Carbon Footprint

1.26 kg CO_2e

Estimated Offsetting Cost In EUR *

0.13 €



* Current Average Market Value Of High Quality Carbon Credit

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