



Product Carbon Footprint Calculation Results

02/04/2025 - 15:45

Product	SKU
DRESSES	SOFIA GOWN

Layer	Gender	Wastage Percentage
Tops	Women	5%

Property Name	Property Value	SQM
Upper body length	long	0.69
Fit	slim	1.44
Sleeves	long	0.289
Neck	boat	-0.045
EU SIZE	L woman	0.19897744204083448

Layer	Gender	Wastage Percentage
Skirts	Women	5%

Property Name	Property Value	SQM
Length	long	0.69
Shape	tulle	484
Rise	regular	0
EU SIZE	L woman	0.19897744204083448

External - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Viscose generic	67%	14.54	224.8148	3268.8069
Acetate	33%	38	188.2404	7153.1365
Total	100%	52.54	413.06	10421.94

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

External - Yarn Production

Process Name	Material	
Carding (CO2e g)	Viscose generic (CHINA) 57.9343	Acetate (CHINA) 48.5092
Winding (CO2e g)	Viscose generic (CHINA) 133.2489	Acetate (CHINA) 111.5711
Sizing (CO2e g)	Viscose generic (CHINA) 2.7724	Acetate (CHINA) 2.3214
Ring Spinning (CO2e g)	Viscose generic (CHINA) 278.0847	Acetate (CHINA) 232.8441
Warping (CO2e g)	Viscose generic (CHINA) 9.4261	Acetate (CHINA) 7.8926
Roving (Co2e g)	Viscose generic (CHINA) 23.1737	Acetate (CHINA) 19.4037
Yarn Production - Dyeing (CO2e g)	Viscose generic (CHINA) 72.0822	Acetate (CHINA) 60.3554
Blowing (CO2e g)	Viscose generic (CHINA) 52.1409	Acetate (CHINA) 43.6583
Drawing (CO2e g)	Viscose generic (CHINA) 34.7606	Acetate (CHINA) 29.1055
Total	663.6238	555.66130000000001

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

External - Cutting & Stitching

Process Name	Material	
Major cutting	Viscose generic (INDIA) 0.0106	Acetate (INDIA) 0.0089
Total	0.0106	0.0089

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	INDIA	INDIA		0
Acetate	INDIA	INDIA		0
Total				0

External - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Viscose generic (CHINA) 0.2486	Acetate (CHINA) 0.2082
Weaving (CO2e g)	Viscose generic (CHINA) 236.2129	Acetate (CHINA) 197.7842
Total	236.4615	197.9924

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

External - Garment Manufacturing

Process Name	Material	
Finishing Emissions (CO2g)	Viscose generic (INDIA) 130.8422	Acetate (INDIA) 109.5559
Laundry Emissions (CO2e g)	Viscose generic (INDIA) 130.8422	Acetate (INDIA) 109.5559
Washing & Drying Emissions	Viscose generic (INDIA) 19.1902	Acetate (INDIA) 16.0682
Total	280.8746	235.17999999999998

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	INDIA	INDIA		0
Acetate	INDIA	INDIA		0
Total				0

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	INDIA	0.1908	20
Addition	Swarovski (10grams/unit)	INDIA	1.1125	15

External - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	INDIA	INDIA		0
Acetate	INDIA	INDIA		0
Total				0

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	INDIA	0.1209	1

Fabric_2 - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Silk generic	54%	52.5	126.8358	6658.8795
Viscose generic	40%	14.54	134.2178	1951.5265
Elastane generic	6%	10.7	40.2653	430.8391
Total	100%	77.74	301.32	9041.25

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

Fabric_2 - Yarn Production

Process Name	Material		
Carding (CO2e g)	Silk generic (CHINA) 32.6853	Viscose generic (CHINA) 34.5877	Elastane generic (CHINA) 10.3763

Process Name	Material		
Winding (CO2e g)	Silk generic (CHINA) 75.1763	Viscose generic (CHINA) 79.5516	Elastane generic (CHINA) 23.8655
Sizing (CO2e g)	Silk generic (CHINA) 1.5641	Viscose generic (CHINA) 1.6552	Elastane generic (CHINA) 0.4965
Ring Spinning (CO2e g)	Silk generic (CHINA) 156.8896	Viscose generic (CHINA) 166.0207	Elastane generic (CHINA) 49.8062
Warping (CO2e g)	Silk generic (CHINA) 5.318	Viscose generic (CHINA) 5.6275	Elastane generic (CHINA) 1.6883
Roving (Co2e g)	Silk generic (CHINA) 13.0741	Viscose generic (CHINA) 13.8351	Elastane generic (CHINA) 4.1505
Yarn Production - Dyeing (CO2e g)	Silk generic (CHINA) 40.6673	Viscose generic (CHINA) 43.0342	Elastane generic (CHINA) 12.9102
Blowing (CO2e g)	Silk generic (CHINA) 29.4168	Viscose generic (CHINA) 31.1289	Elastane generic (CHINA) 9.3387
Drawing (CO2e g)	Silk generic (CHINA) 19.6112	Viscose generic (CHINA) 20.7526	Elastane generic (CHINA) 6.2258
Total	374.4027	396.1935	118.858

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

Fabric_2 - Cutting & Stitching

Process Name	Material		
Major cutting	Silk generic (INDIA) 0.006	Viscose generic (INDIA) 0.0063	Elastane generic (INDIA) 0.0019
Total	0.006	0.0063	0.0019

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Silk generic	INDIA	INDIA		0
Viscose generic	INDIA	INDIA		0
Elastane generic	INDIA	INDIA		0
Total				0

Fabric_2 - Fabric Production

Process Name	Material		
Heat Setting (CO2e g)	Silk generic (CHINA) 0.1403	Viscose generic (CHINA) 0.1484	Elastane generic (CHINA) 0.0445
Weaving (CO2e g)	Silk generic (CHINA) 133.2664	Viscose generic (CHINA) 141.0226	Elastane generic (CHINA) 42.3068
Total	133.4067	141.17100000000002	42.3513

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

Fabric_2 - Garment Manufacturing

Process Name	Material		
Finishing Emissions (CO2g)	Silk generic (INDIA) 73.8184	Viscose generic (INDIA) 78.1147	Elastane generic (INDIA) 23.4344
Laundry Emissions (CO2e g)	Silk generic (INDIA) 73.8184	Viscose generic (INDIA) 78.1147	Elastane generic (INDIA) 23.4344
Washing & Drying Emissions	Silk generic (INDIA) 10.8267	Viscose generic (INDIA) 11.4568	Elastane generic (INDIA) 3.437
Total	158.46349999999998	167.68619999999999	50.3058

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Silk generic	INDIA	INDIA		0
Viscose generic	INDIA	INDIA		0
Elastane generic	INDIA	INDIA		0
Total				0

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	INDIA	0.1908	20
Addition	Swarovski (10grams/unit)	INDIA	1.1125	15

Fabric_2 - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Silk generic	INDIA	INDIA		0
Viscose generic	INDIA	INDIA		0
Elastane generic	INDIA	INDIA		0
Total				0

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	INDIA	0.1209	1

Final Transportation

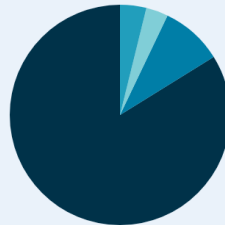
Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Viscose generic	INDIA	UNITED KINGDOM	AIR - 0	0
Acetate	INDIA	UNITED KINGDOM	AIR - 0	0
Total				0

Total Carbon Footprint

23.21 kg CO₂e

Estimated Offsetting Cost In EUR *

2.32 €



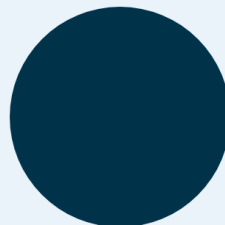
- Raw Material (83.84%)
- Yarn Production (9.09%)
- Fabric Production (3.24%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (3.85%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

19.46 kg CO₂e

Estimated Offsetting Cost In EUR *

1.95 €



- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

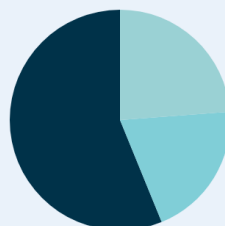
0 €

Process Carbon Footprint

3.75 kg CO₂e

Estimated Offsetting Cost In EUR *

0.38 €



- Yarn Production (56.23%)
- Cutting & Stitching (0.00%)
- Fabric Production (20.04%)
- Garment Manufacturing (23.84%)
- Finishing & Packaging (0.00%)

* Current Average Market Value Of High Quality Carbon Credit

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