

Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU
DRESSES	25AWRTE54640

Layer	Gender	Wastage Percentage
Tops	Women	5%

Property Name	Property Value	SQM
Upper body length	regular	0.6
Fit	slim	1.44
Sleeves	long	0.289
Neck	v neck	-0.016
EU SIZE	S woman	0.1935085228292251

Layer	Gender	Wastage Percentage
Skirts	Women	5%

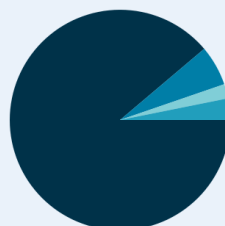
Property Name	Property Value	SQM
Length	short	0.3657
Shape	tube straight	0
Rise	regular	0
EU SIZE	S woman	0.1935085228292251

Total Carbon Footprint

4.68 kg CO₂e

Estimated Offsetting Cost In EUR *

0.47 €



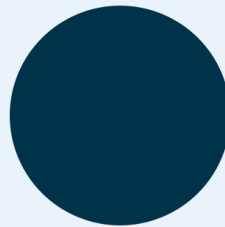
- Raw Material (88.89%)
- Yarn Production (5.91%)
- Fabric Production (2.11%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (3.16%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

4.16 kg CO₂e

Estimated Offsetting Cost In EUR *

0.42 €



● Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

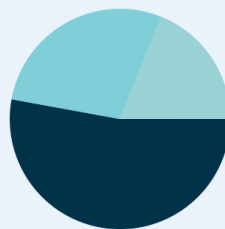
0 €

Process Carbon Footprint

0.52 kg CO₂e

Estimated Offsetting Cost In EUR *

0.05 €



- Yarn Production (53.19%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (28.41%)
- Fabric Production (18.99%)
- Finishing & Packaging (0.02%)

* Current Average Market Value Of High Quality Carbon Credit

Phases country risk

Layer	Production Phase	Country	Country Risk / Provider
16MM STRETCH SILK SATIN	Raw Material	CHINA	High Risk
16MM STRETCH SILK SATIN	Yarn Production	CHINA	High Risk
16MM STRETCH SILK SATIN	Fabric Production	CHINA	High Risk
16MM STRETCH SILK SATIN	Cutting & Stitching	CHINA	High Risk
16MM STRETCH SILK SATIN	Garment Manufacturing	CHINA	High Risk
16MM STRETCH SILK SATIN	Finishing & Packaging	CHINA	High Risk

Water Footprint & Land Impact Summary

Production Phase	Green Water (liters)	Blue Water (liters)	Grey Water (liters)
Raw Material	2451.21	188.55	1319.88
Yarn Production	0	150.84	923.92

Production Phase	Green Water (liters)	Blue Water (liters)	Grey Water (liters)
Fabric Production	0	141.42	989.91
Garment Manufacturing	0	207.41	1623.45
Total (Liters)	2451.21	688.22	4857.16

Land Impact Summary	
Total Land Use (m2)	0.03

16MM STRETCH SILK SATIN - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Silk generic	92%	52.5	75.4218	3959.6453
Elastane/Spandex	8%	10.7	18.2699	195.4877
Total	100%	63.2	93.69	4155.13

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

16MM STRETCH SILK SATIN - Yarn Production

Process Name	Material	
Carding (CO2e g)	Silk generic (CHINA) 19.4361	Elastane/Spandex (CHINA) 4.7081
Winding (CO2e g)	Silk generic (CHINA) 44.7029	Elastane/Spandex (CHINA) 10.8287
Sizing (CO2e g)	Silk generic (CHINA) 0.9301	Elastane/Spandex (CHINA) 0.2253
Ring Spinning (CO2e g)	Silk generic (CHINA) 93.293	Elastane/Spandex (CHINA) 22.5989
Warping (CO2e g)	Silk generic (CHINA) 3.1623	Elastane/Spandex (CHINA) 0.766
Roving (Co2e g)	Silk generic (CHINA) 7.7744	Elastane/Spandex (CHINA) 1.8832
Dyeing (CO2e g)	Silk generic (CHINA) 24.1825	Elastane/Spandex (CHINA) 5.8579
Blowing (CO2e g)	Silk generic (CHINA) 17.4924	Elastane/Spandex (CHINA) 4.2373
Drawing (CO2e g)	Silk generic (CHINA) 11.6616	Elastane/Spandex (CHINA) 2.8249
Total	222.63529999999997	53.9303

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

16MM STRETCH SILK SATIN - Cutting & Stitching

Process Name	Material	
Major cutting	Silk generic (CHINA) 0.0025	Elastane/Spandex (CHINA) 0.0006
Total	0.0025	0.0006

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

16MM STRETCH SILK SATIN - Garment Manufacturing

Process Name	Material		
Garment dyeing (CO2e g)	Silk generic (CHINA) 51.3012	Elastane/Spandex (CHINA) 12.427	
Finishing Emissions (CO2g)	Silk generic (CHINA) 31.2812	Elastane/Spandex (CHINA) 7.5774	
Laundry Emissions (CO2e g)	Silk generic (CHINA) 31.2812	Elastane/Spandex (CHINA) 7.5774	
Washing & Drying Emissions	Silk generic (CHINA) 4.5879	Elastane/Spandex (CHINA) 1.1114	
Total	118.45150000000001	28.6932	

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

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	CHINA	0.5724	60

16MM STRETCH SILK SATIN - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Silk generic (CHINA) 0.0834	Elastane/Spandex (CHINA) 0.0202
Coating (CO2e g)	Silk generic (CHINA) 0	Elastane/Spandex (CHINA) 0
Bonding (CO2e g)	Silk generic (CHINA) 0.1731	Elastane/Spandex (CHINA) 0.0419
Weaving (CO2e g)	Silk generic (CHINA) 79.2457	Elastane/Spandex (CHINA) 19.1962
Total	79.5022	19.258300000000002

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

16MM STRETCH SILK SATIN - Finishing & Packaging

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

Production Group	Process Name	Country	CO2e	Value
---	Plastic Hanger	CHINA	0.0862	1

Final Transportation

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
Silk generic	CHINA	UNITED KINGDOM	AIR - 0	0
Elastane/Spandex	CHINA	UNITED KINGDOM	AIR - 0	0
Total				0

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