

# Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU	Gender	Wastage Percentage
SHIRTS	25AWRTE54889	Women	5%

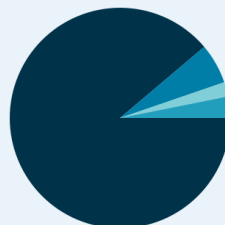
Property Name	Property Value	SQM
Body length	extra long	0.861
Fit	regular	0
Sleeves	long	0.31
Neck	classic collar	0.039
EU SIZE	S woman	0.1935085228292251

## Total Carbon Footprint

**4.85** kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

**0.48** €



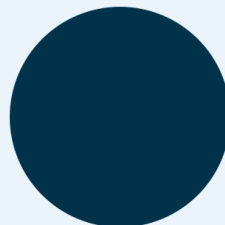
- Raw Material (88.87%)
- Yarn Production (5.91%)
- Fabric Production (2.11%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (3.15%)
- Finishing & Packaging (0.00%)

## Raw Material Carbon Footprint

**4.31** kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

**0.43** €



- Raw Material (100%)

## Transportation Carbon Footprint

0 kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

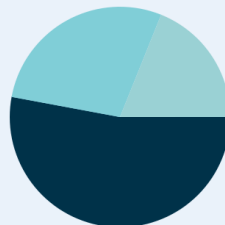
0 €

### Process Carbon Footprint

0.54 kg CO<sub>2</sub>e

Estimated Offsetting Cost In EUR \*

0.05 €



- Yarn Production (53.12%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (28.26%)
- Fabric Production (18.97%)
- 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	2542.18	195.55	1368.87
Yarn Production	0	156.44	958.21
Fabric Production	0	146.66	1026.65
Garment Manufacturing	0	215.11	1683.71
<b>Total (Liters)</b>	<b>2542.18</b>	<b>713.76</b>	<b>5037.44</b>

Land Impact Summary	
<b>Total Land Use (m2)</b>	<b>0.03</b>

## 16MM STRETCH SILK SATIN - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
Silk generic	92%	52.5	78.221	4106.6005
Elastane/Spandex	8%	10.7	18.9479	202.7429
<b>Total</b>	<b>100%</b>	<b>63.2</b>	<b>97.17</b>	<b>4309.34</b>

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

### 16MM STRETCH SILK SATIN - Yarn Production

Process Name	Material	
Carding (CO2e g)	Silk generic (CHINA) 20.1574	Elastane/Spandex (CHINA) 4.8828
Winding (CO2e g)	Silk generic (CHINA) 46.362	Elastane/Spandex (CHINA) 11.2305
Sizing (CO2e g)	Silk generic (CHINA) 0.9646	Elastane/Spandex (CHINA) 0.2337
Ring Spinning (CO2e g)	Silk generic (CHINA) 96.7555	Elastane/Spandex (CHINA) 23.4377
Warping (CO2e g)	Silk generic (CHINA) 3.2797	Elastane/Spandex (CHINA) 0.7945
Roving (Co2e g)	Silk generic (CHINA) 8.063	Elastane/Spandex (CHINA) 1.9531
Dyeing (CO2e g)	Silk generic (CHINA) 25.0799	Elastane/Spandex (CHINA) 6.0753
Blowing (CO2e g)	Silk generic (CHINA) 18.1416	Elastane/Spandex (CHINA) 4.3946
Drawing (CO2e g)	Silk generic (CHINA) 12.0944	Elastane/Spandex (CHINA) 2.9297
<b>Total</b>	<b>230.89810000000003</b>	<b>55.93189999999999</b>

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

### 16MM STRETCH SILK SATIN - Cutting & Stitching

Process Name	Material	
Major cutting	Silk generic (CHINA) 0.0026	Elastane/Spandex (CHINA) 0.0006
<b>Total</b>	<b>0.0026</b>	<b>0.0006</b>

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

### 16MM STRETCH SILK SATIN - Garment Manufacturing

Process Name	Material	
Garment dyeing (CO2e g)	Silk generic (CHINA) 53.2051	Elastane/Spandex (CHINA) 12.8882
Finishing Emissions (CO2g)	Silk generic (CHINA) 32.4421	Elastane/Spandex (CHINA) 7.8587

Process Name	Material	
Laundry Emissions (CO2e g)	Silk generic (CHINA) 32.4421	Elastane/Spandex (CHINA) 7.8587
Washing & Drying Emissions	Silk generic (CHINA) 4.7582	Elastane/Spandex (CHINA) 1.1526
<b>Total</b>	<b>122.84750000000001</b>	<b>29.7582</b>

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

## 16MM STRETCH SILK SATIN - Fabric Production

Process Name	Material	
Heat Setting (CO2e g)	Silk generic (CHINA) 0.0865	Elastane/Spandex (CHINA) 0.021
Coating (CO2e g)	Silk generic (CHINA) 0	Elastane/Spandex (CHINA) 0
Bonding (CO2e g)	Silk generic (CHINA) 0.1795	Elastane/Spandex (CHINA) 0.0435
Weaving (CO2e g)	Silk generic (CHINA) 82.1868	Elastane/Spandex (CHINA) 19.9086
<b>Total</b>	<b>82.45280000000001</b>	<b>19.9731</b>

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

## 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
<b>Total</b>				<b>0</b>

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
<b>Total</b>				<b>0</b>

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