

Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU	Gender	Wastage Percentage
PANTS	25AWRKT54933	Women	5%

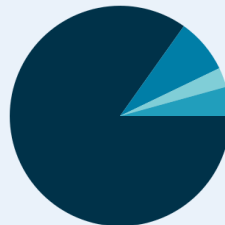
Property Name	Property Value	SQM
Length	ankle	0.9025
Shape	straight	0
Rise	regular	0
Cargo	yes	0.03
EU SIZE	S woman	0.18141289437586086

Total Carbon Footprint

10.34 kg CO₂e

Estimated Offsetting Cost In EUR *

1.03 €



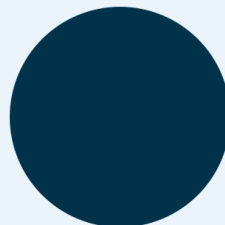
- Raw Material (84.82%)
- Yarn Production (8.03%)
- Fabric Production (2.87%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (4.27%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

8.77 kg CO₂e

Estimated Offsetting Cost In EUR *

0.88 €



- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

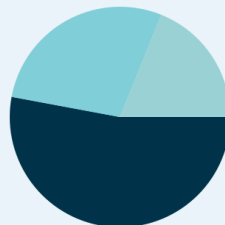
0 €

Process Carbon Footprint

1.57 kg CO₂e

Estimated Offsetting Cost In EUR *

0.16 €



- Yarn Production (52.88%)
- Cutting & Stitching (0.00%)
- Garment Manufacturing (28.13%)
- Fabric Production (18.88%)
- Finishing & Packaging (0.01%)

* Current Average Market Value Of High Quality Carbon Credit

Phases country risk

Layer	Production Phase	Country	Country Risk / Provider
WOOL	Raw Material	CHINA	High Risk
WOOL	Yarn Production	CHINA	High Risk
WOOL	Fabric Production	CHINA	High Risk
WOOL	Cutting & Stitching	CHINA	High Risk
WOOL	Garment Manufacturing	CHINA	High Risk
WOOL	Finishing & Packaging	CHINA	High Risk

Water Footprint & Land Impact Summary

Production Phase	Green Water (liters)	Blue Water (liters)	Grey Water (liters)
Raw Material	1574.87	239.04	98.43
Yarn Production	0	191.23	68.9
Fabric Production	0	179.28	73.82
Garment Manufacturing	0	262.95	121.07
Total (Liters)	1574.87	872.5	362.22

Land Impact Summary	
Total Land Use (m2)	0.04

WOOL - Raw Material

Material	Percentage	CO2e per GRAM	Fabric Grams	CO2e Grams
wool lamb	100%	31.2	281.2265	8774.2655
Total	100%	31.2	281.23	8774.27

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	CHINA	CHINA		0
Total				0

WOOL - Yarn Production

Process Name	Material
Carding (CO2e g)	wool lamb (CHINA) 72.4715
Winding (CO2e g)	wool lamb (CHINA) 166.6844
Sizing (CO2e g)	wool lamb (CHINA) 3.4681
Ring Spinning (CO2e g)	wool lamb (CHINA) 347.8632
Warping (CO2e g)	wool lamb (CHINA) 11.7914
Roving (Co2e g)	wool lamb (CHINA) 28.9886
Dyeing (CO2e g)	wool lamb (CHINA) 90.1695
Blowing (CO2e g)	wool lamb (CHINA) 65.2243
Drawing (CO2e g)	wool lamb (CHINA) 43.4829
Total	830.1438999999999

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	CHINA	CHINA		0
Total				0

WOOL - Cutting & Stitching

Process Name	Material
Major cutting	wool lamb (CHINA) 0.0095
Total	0.0095

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	CHINA	CHINA		0
Total				0

WOOL - Garment Manufacturing

Process Name	Material
Garment dyeing (CO2e g)	wool lamb (CHINA) 191.2874
Finishing Emissions (CO2g)	wool lamb (CHINA) 116.6387
Laundry Emissions (CO2e g)	wool lamb (CHINA) 116.6387
Washing & Drying Emissions	wool lamb (CHINA) 17.107
Total	441.67179999999996

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	CHINA	CHINA		0
Total				0

WOOL - Fabric Production

Process Name	Material
Heat Setting (CO2e g)	wool lamb (CHINA) 0.311
Coating (CO2e g)	wool lamb (CHINA) 0
Bonding (CO2e g)	wool lamb (CHINA) 0.6454
Weaving (CO2e g)	wool lamb (CHINA) 295.4846
Total	296.441

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	CHINA	CHINA		0
Total				0

WOOL - Finishing & Packaging

Material	Origin Country	Destination Country	Transports	Transport CO2e Grams
wool lamb	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
wool lamb	CHINA	UNITED KINGDOM	AIR - 0	0
Total				0

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