

Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

Product	SKU	Gender	Wastage Percentage
SWEATERS	25AWRKT54931	Women	5%

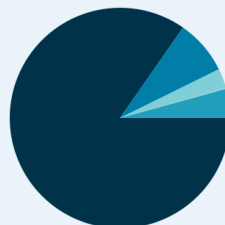
Property Name	Property Value	SQM
Body length	regular	0.48
Fit	regular	0
Sleeves	long	0.23
Neck	shawl	0.0192
EU SIZE	S woman	0.1935085228292251

Total Carbon Footprint

8.09 kg CO₂e

Estimated Offsetting Cost In EUR *

0.81 €



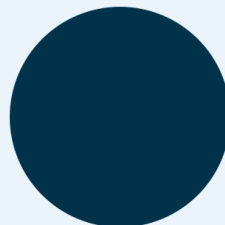
- Raw Material (84.67%)
- Yarn Production (8.01%)
- Fabric Production (2.86%)
- Knitting & Trimming (0.17%)
- Garment Manufacturing (4.27%)
- Finishing & Packaging (0.00%)

Raw Material Carbon Footprint

6.85 kg CO₂e

Estimated Offsetting Cost In EUR *

0.68 €



- Raw Material (100%)

Transportation Carbon Footprint

0 kg CO₂e

Estimated Offsetting Cost In EUR *

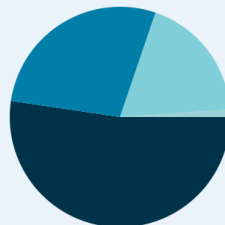
0 €

Process Carbon Footprint

1.24 kg CO₂e

Estimated Offsetting Cost In EUR *

0.12 €



- Yarn Production (52.28%)
- Garment Manufacturing (27.85%)
- Fabric Production (18.67%)
- Knitting & Trimming (1.08%)
- 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	Knitting & Trimming	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	1229.72	186.65	76.86
Yarn Production	0	149.32	53.8
Fabric Production	0	139.99	57.64
Garment Manufacturing	0	205.32	94.54
Total (Liters)	1229.72	681.28	282.84

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	219.5937	6851.3227
Total	100%	31.2	219.59	6851.32

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) 56.5889
Winding (CO2e g)	wool lamb (CHINA) 130.1544
Sizing (CO2e g)	wool lamb (CHINA) 2.708
Ring Spinning (CO2e g)	wool lamb (CHINA) 271.6265
Warping (CO2e g)	wool lamb (CHINA) 9.2072
Roving (Co2e g)	wool lamb (CHINA) 22.6355
Dyeing (CO2e g)	wool lamb (CHINA) 70.4082
Blowing (CO2e g)	wool lamb (CHINA) 50.93
Drawing (CO2e g)	wool lamb (CHINA) 33.9533
Total	648.212

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) 149.3654
Finishing Emissions (CO2g)	wool lamb (CHINA) 91.0765
Laundry Emissions (CO2e g)	wool lamb (CHINA) 91.0765
Washing & Drying Emissions	wool lamb (CHINA) 13.3579
Total	344.8763

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

Production Group	Process Name	Country	CO2e	Value
Addition	Zip (cm)	CHINA	0.4198	44

WOOL - Fabric Production

Process Name	Material
Heat Setting (CO2e g)	wool lamb (CHINA) 0.2429
Coating (CO2e g)	wool lamb (CHINA) 0
Bonding (CO2e g)	wool lamb (CHINA) 0.504
Weaving (CO2e g)	wool lamb (CHINA) 230.7271
Total	231.47400000000002

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

WOOL - Knitting & Trimming

Process Name	Material
Linking	wool lamb (CHINA) 13.3579
Total	13.3579

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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