# Product Carbon Footprint Calculation Results

07/17/2025 - 10:21

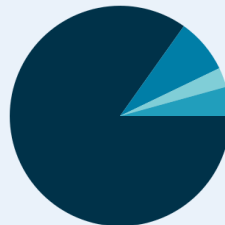| Product | SKU | Gender | Wastage Percentage |
|---------|-----|--------|--------------------|
| PANTS | 25AWRKT54933 | Women | 5% |

| 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 $CO_2$e

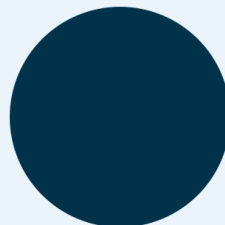**Estimated Offsetting Cost In EUR ***

### 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 $CO_2$e

**Estimated Offsetting Cost In EUR ***

### 0.88 €

- Raw Material (100%)

## Transportation Carbon Footprint

**0** kg CO$_2$e

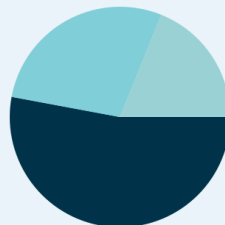**Estimated Offsetting Cost In EUR** *

**0** €

## Process Carbon Footprint

**1.57** kg CO$_2$e

**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** |

failure by the user to input correct or verifiable data.

This disclaimer is subject to change without notice, and users are encouraged to review it regularly to stay informed of any updates.