Contracting organization	Mascot International A/S, Denmark		
Project team	Corporate Responsibility Department, Mascot International A/S		
Review of Mascot's Life-Cycle Assessment (LCA) methodology and product LCA	Quantis Sàrl, Switzerland		
Method validity date	December 2023 Methodology is valid for 5 years		
Method	ISO 14040:2006 + A1:2020 / ISO 14044:2006 + A1:2018 + A2:2020. Product Environmental Footprint Category Rules (PEFCR) for Apparel and Footwear is followed when possible.		
Description of system boundaries	Cradle to grave		
LCIA method	EF 3.1 (adapted)		
Data collection	Primary data – main source. Generic data from ecoinvent v.3.10 APOS database Reference year is 2023		
LCA software used	SimaPro v.9.6.0.1		
Data quality	Method for data quality rating (DQR) developed in alignment with the PEF requirements.		
Data quality declaration	High (rated as described in PEFCR for Apparel and Footwear).		
Limitations	Style studies are based on reference sizes as defined in PEFCR for apparel and footwear. Current model is also based on reference colours. For other sizes and colours, the reader is encouraged to bear this in mind.		
LCA methodology summary report	Contact <u>responsibility@mascot.dk</u> if you are interested in the report.		

Style: 18105-951 Main fabric: 100% PES

LIFE CYCLE ASSESSMENT FACTSHEET

March 2025 version 2.1

TARGET GROUP

The 18105 is part of a collection designed for a broad target group in different work situations within trade, construction, manufacturing, industry and businesses with laundry agreements.

LONG-LASTING DURABILITY

By analysing fabric performance requirements and collecting data on customer experience, the LCA is verified by Quantis for an estimated duration of service of use in hard working situations and with industrial wash every week.

CRADLE-TO-GRAVE

Cradle-to-grave is a scoping of the LCA that calculates the entire lifecycle of a product from Extraction of Raw materials to the Use & Wash and End-of-Life stages. Cradle-to-grave results are presented per use according to PEF Category Rules for Apparel and Footwear.

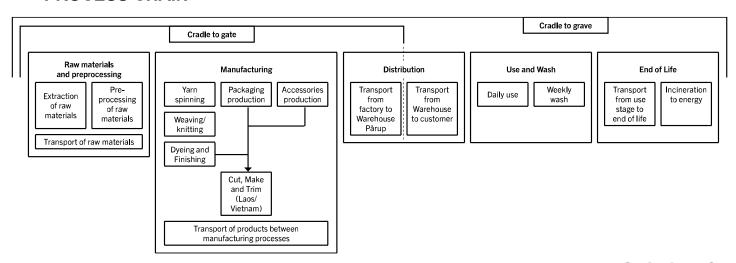
METHODOLOGY

MASCOT LCAs is mainly based on primary data from own factories and suppliers. MASCOT LCAs are calculated according to ISO14040/44. The method is verified by Quantis and applies to all colours.



Cradle to Grave: 0,0487kg CO₂ per use Based on an ISO compliant methodology verified by Quantis

PROCESS CHAIN





THE 16 IMPACT FACTORS

Impact category	Damage assessment unit	Impact to-gate per garment	Impact to-grave per use
Acidification	mol H⁺ eq	0,0288	0,00018
Climate change	kg CO ₂ eq	5,33	0,0487
Climate change - Biogenic	kg CO₂ eq	0,00787	0,000654
Climate change - Fossil	kg CO₂ eq	5,31	0,047
Climate change - Land use and LU change	kg CO₂ eq	0,00558	0,000998
Ecotoxicity, freshwater	CTUe	22,8	0,443
Ecotoxicity, freshwater - part 2	CTUe	21,5	0,121
Ecotoxicity, freshwater - inorganics	CTUe	39	0,44
Ecotoxicity, freshwater - organics part 1	CTUe	3,37	0,112
Ecotoxicity, freshwater - organics part 2	CTUe	1,91	0,0124
Particulate matter	disease inc.	0,000000254	0,0000000165
Eutrophication, marine	kg N eq	0,00581	0,0000602
Eutrophication, freshwater	kg P eq	0,000282	0,00000555
Eutrophication, terrestrial	mol N eq	0,0613	0,000438
Human toxicity, cancer	CTUh	0,000000152	0,00000000149
Human toxicity, cancer - inorganics	CTUh	0,000000000665	0,000000000047
Human toxicity, cancer - organics	CTUh	0,000000145	0,00000000144
Human toxicity, non-cancer	CTUh	0,000000505	0,000000000426
Human toxicity, non-cancer - inorganics	CTUh	0,0000000438	0,00000000389
Human toxicity, non-cancer - organics	CTUh	0,00000000669	0,000000000375
Ionising radiation	kBq U ⁻²³⁵ eq	0,657	0,00237
Land use	Pt	25,4	0,239
Ozone depletion	kg CFC11 eq	0,0000105	0,0000000252
Photochemical ozone formation	kg NMVOC eq	0,0269	0,000173
Resource use, fossils	MJ	99,6	0,735
Resource use, minerals and metals	kg Sb eq	0,0000771	0,000000295
Water use	m³ depriv.	3,62	0,0165

