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 2024		
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: 19519-236

Main fabric: 70%r PES/ 30% CO

LIFE CYCLE ASSESSMENT FACTSHEET

April 2025 version 2.1

TARGET GROUP

The 19519 is part of a collection designed for a broad target group in different more demanding work situations within contractors, road workers, offshore and wind sector, airport workers and sailors and 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

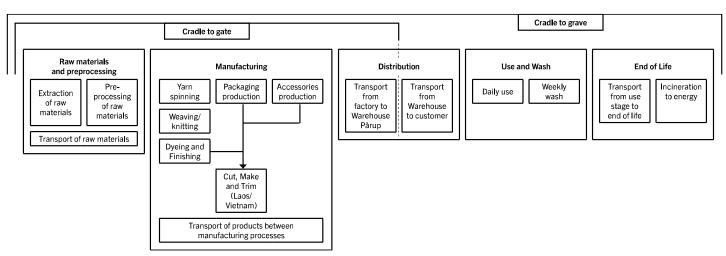
MASCOT LCAs is mainly based on primary data from own factories and suppliers. MASCOT LCAs are calculated according to ISO14040/44. The method is verified by Quantis and applies to all colours.

Cradle to Gate: 14,5 kg CO₂ per garment

Cradle to Grave: 0,116 kg CO₂ per use Based on an ISO compliant methodology verified by Quantis



PROCESS CHAIN





Style: 19519-236

Main fabric: 70%r PES/ 30% CO

THE 16 IMPACT FACTORS

Impact category	Damage assessment	Impact to-gate	Impact to-grave
	unit	per garment	per use
Acidification	mol H⁺ eq	0,105	0,000505
Climate change	kg CO₂ eq	14,5	0,116
Climate change - Biogenic	kg CO₂ eq	0,174	0,00145
Climate change - Fossil	kg CO₂ eq	14,1	0,112
Climate change - Land use and LU change	kg CO₂ eq	0,214	0,00275
Ecotoxicity, freshwater	CTUe	92,8	1,1
Ecotoxicity, freshwater - part 2	CTUe	77	0,344
Ecotoxicity, freshwater - inorganics	CTUe	77,8	0,964
Ecotoxicity, freshwater - organics part 1	CTUe	48,3	0,352
Ecotoxicity, freshwater - organics part 2	CTUe	43,7	0,124
Particulate matter	disease inc.	0,000000886	0,000000045
Eutrophication, marine	kg N eq	0,0609	0,000252
Eutrophication, freshwater	kg P eq	0,00161	0,0000149
Eutrophication, terrestrial	mol N eq	0,275	0,00132
Human toxicity, cancer	CTUh	0,0000000368	0,00000000344
Human toxicity, cancer - inorganics	CTUh	0,0000000186	0,000000000113
Human toxicity, cancer - organics	CTUh	0,000000349	0,00000000333
Human toxicity, non-cancer	CTUh	0,000000206	0,0000000117
Human toxicity, non-cancer - inorganics	CTUh	0,00000173	0,0000000104
Human toxicity, non-cancer - organics	CTUh	0,0000000322	0,00000000126
Ionising radiation	kBq U ⁻²³⁵ eq	0,954	0,00407
Land use	Pt	146	0,756
Ozone depletion	kg CFC11 eq	0,00000532	0,000000139
Photochemical ozone formation	kg NMVOC eq	0,065	0,000403
Resource use, fossils	MJ	202	1,61
Resource use, minerals and metals	kg Sb eq	0,000199	0,000000766
Water use	m³ depriv.	58,2	0,159



