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: 23002-246

Main fabric: 87%rPES/ 13%TPU

LIFE CYCLE ASSESSMENT FACTSHEET

April 2025 version 2.1

TARGET GROUP

The 23002 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.

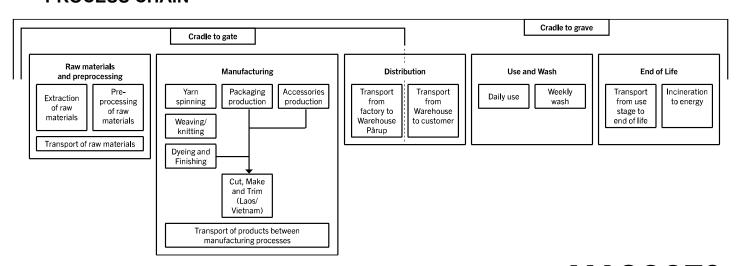
METHODOLOGY

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 Grave: 0,102 kg CO₂ per use Based on an ISO compliant methodology verified by Quantis

PROCESS CHAIN





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THE 16 IMPACT FACTORS

Impact category		Damage assessment	Impact to-gate	Impact to-grave		
A statistic and as		unit	per garment	per use		
Acidification		mol H ⁺ eq	0,0649	0,000392		
Climate change Climate change	zo Diogonio	kg CO ₂ eq	10,9			
Climate chang		kg CO ₂ eq	0,208	0,00172		
			0,0156	0,0981 Style nr. 23001-23		
N. Ohiotelland	ge - Land use and LU change	kg CO ₂ eq				
Ecotoxicity, fres	nwater Contracting organization eshwater - part 2	CTUe	74,9 Mascot Internati	0,999 onal A/S, Denmark 0,301		
		CTUe	107	0,988		
CONTRACTOR OF THE PARTY OF THE	eshwater - inorganics	CTUe	5,75	0,233		
	eshwater - organics part 1 Project team	CTUe	Cornorato Rosno	nsibility Department, 0,0794		
	eshwater - organics part 2	CTUe	25,9 Mascot Internat 0,00000051	onal A/S		
Particulate matt		disease inc.		0,0000000343		
Eutrophication,	Pavious of Mascat's Life C	kg N eq Vole Assessment	0,0149 Ouantis Sàrl, Sw 0,000491	0,000134		
Eutrophication,	(I CA) methodology and n	kg P eq		0,0000115		
Eutrophication,		mol N eq	0,147	0,00097		
Human toxicity,	cancer Metilod validity date	CTUh	0,0000000258 2023	0,0000000003		
	cy, cancer - inorganics	CTUh	0,000000000151 _{gy} is	0,0000000000101		
	cy, cancer - organics	CTUh	0,0000000242	0,00000000029		
Human toxicity,	Mctiloa	CTUh	0,0000001490:2006	-0,0000000001 ISO 14044:2006		
	cy, non-cancer - inorganics	CTUh	0,0000001228 + A2:	0,00000000089		
	cy, non-cancer - organics	CTUh	0,000000027Environ	0,000000000111nt Category		
lonising radiatio	n	kBq U ⁻²³⁵ eq	1,33ules (PEFCR) fo	0,00487el and Footwear is		
Land use		Pt	48,2 llowed when p	0;492le.		
Ozone depletion		kg CFC11 eq	0,00000215	0,00000000581		
Photochemical of	ozone formation system bou	kg NMVOC eq	0.0509dle to grave	0,000353		
Resource use, fo		MJ	158	1,43		
Resource use, m	ninerals and metals	kg Sb eq	0,000207 FF 3.1 (adapted)	0,000000758		
Water use	Len't metrod	m ³ depriv.	11,3	0,0437		
	the server the					
	Data collection		Primary data – n	Primary data – main source.		
				m ecoinvent v.3.10 APOS		
			database			
	and the second second	the same of the sa	Reference year i			
	LCA software used		SimaPro v.9.6.0.	1		
			The same of the sa			
	Data di		Mariles d'Constate	(202)		
	Data quality			quality rating (DQR)		
	Data quality		developed in ali	gnment		
			developed in aligned with the PEF req	gnment uirements.		
	Data quality Data quality declaration		developed in aligners with the PEF required High (rated as de	gnment uirements.		
			developed in aligned with the PEF req	gnment uirements.		
	Data quality declaration		developed in alignith the PEF required High (rated as dealer).	gnment Juirements. escribed in PEFCR for Apparel		
			developed in alignish with the PEF required High (rated as deand Footwear). Style studies are	gnment uirements.		

MASCOT® ACCELERATE SAFE

Style: 23002-246

Main fabric: 87%rPES/ 13%TPU

