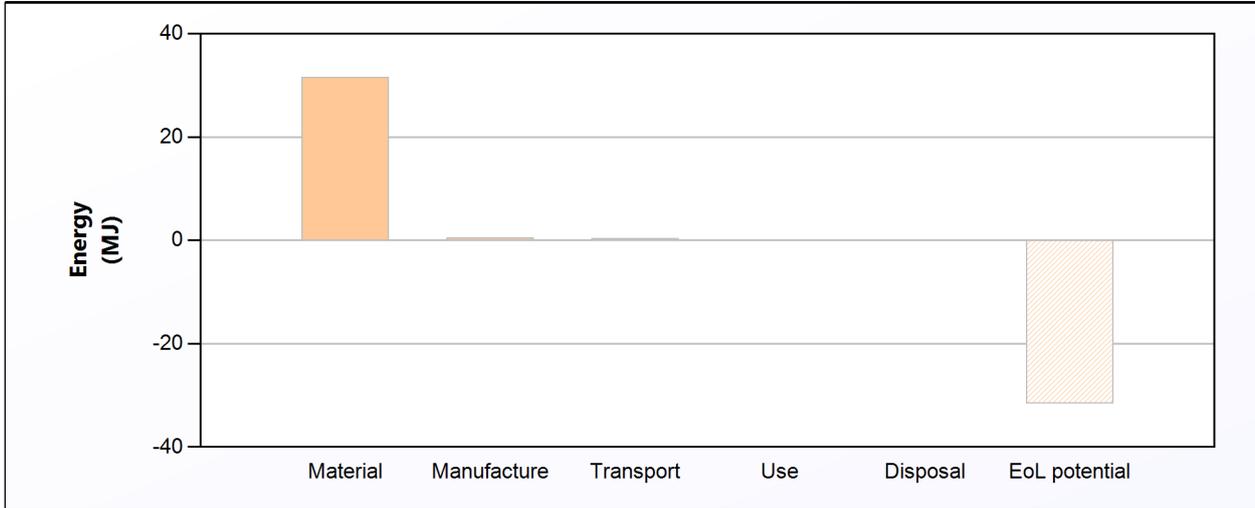


Energy Analysis

[Summary](#)


	Energy (MJ/year)
Equivalent annual environmental burden (averaged over 2 year product life):	16,3

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	Energy (MJ)	%
Veters	Hemp fiber	Virgin (0%)	0,008	1	0,008	0,08	0,3
MIRUM Rubber component	Natural rubber (NR)	Virgin (0%)	0,035	1	0,035	2,7	8,6
MIRUM plant fibres/fillers	Cork (quercus suber)	Virgin (0%)	0,02	1	0,02	0,08	0,3
Zool en strip	Natural rubber (NR)	Virgin (0%)	0,37	1	0,37	29	90,8
Garen	Cotton fiber	Virgin (0%)	0,0005	1	0,0005	0,022	0,1
Total				5	0,43	32	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	Energy (MJ)	%
MIRUM Rubber component	Polymer molding	0,035 kg	0,56	100,0
Total			0,56	100

Transport:[Summary](#)**Breakdown by transport stage**

Stage name	Transport type	Distance (km)	Energy (MJ)	%
vrachtwagen	32 tonne (4 axle) truck	1e+03	0,41	100,0
Total		1e+03	0,41	100

Breakdown by components

Component	Mass (kg)	Energy (MJ)	%
Veters	0,008	0,0075	1,8
MIRUM Rubber component	0,035	0,033	8,1
MIRUM plant fibres/fillers	0,02	0,019	4,6
Zool en strip	0,37	0,35	85,4
Garen	0,0005	0,00047	0,1
Total	0,43	0,41	100

Use:[Summary](#)**Relative contribution of static and mobile modes**

Mode	Energy (MJ)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:[Summary](#)

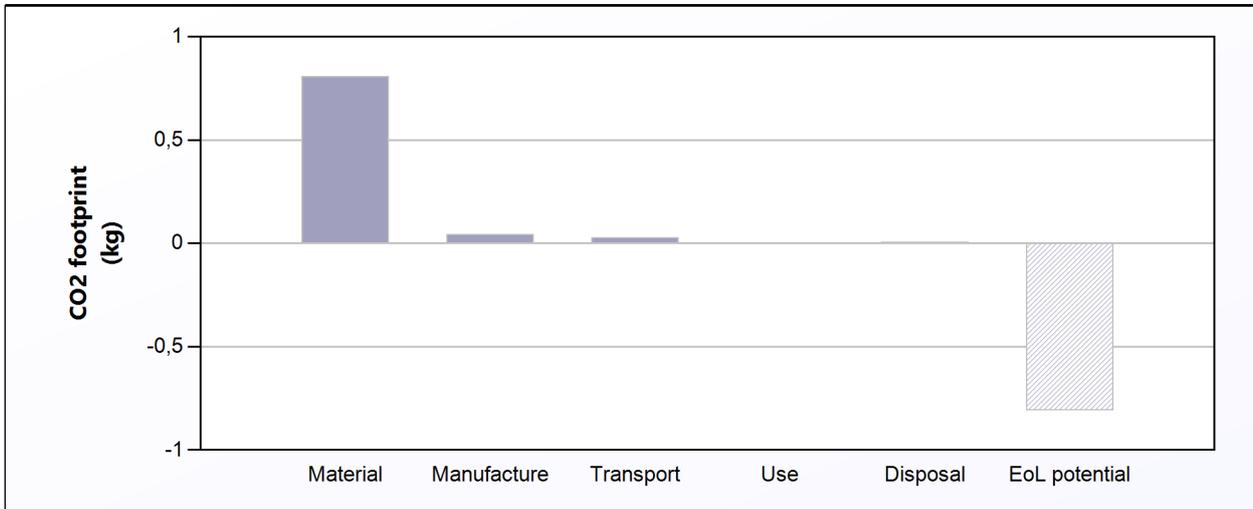
Component	End of life option	Energy (MJ)	%
Veters	Reuse	0,0016	1,8
MIRUM Rubber component	Reuse	0,007	8,1
MIRUM plant fibres/fillers	Reuse	0,004	4,6
Zool en strip	Reuse	0,074	85,4
Garen	Re-manufacture	0,0001	0,1
Total		0,087	100

EoL potential:

Component	End of life option	Energy (MJ)	%
Veters	Reuse	-0,08	0,3
MIRUM Rubber component	Reuse	-2,7	8,6
MIRUM plant fibres/fillers	Reuse	-0,08	0,3
Zool en strip	Reuse	-29	90,8
Garen	Re-manufacture	-0,021	0,1
Total		-32	100

Notes:[Summary](#)

CO2 Footprint Analysis

[Summary](#)


	CO2 (kg/year)
Equivalent annual environmental burden (averaged over 2 year product life):	0,444

Detailed breakdown of individual life phases

Material:

[Summary](#)

Component	Material	Recycled content* (%)	Part mass (kg)	Qty.	Total mass (kg)	CO2 footprint (kg)	%
Veters	Hemp fiber	Virgin (0%)	0,008	1	0,008	0,013	1,6
MIRUM Rubber component	Natural rubber (NR)	Virgin (0%)	0,035	1	0,035	0,068	8,5
MIRUM plant fibres/fillers	Cork (quercus suber)	Virgin (0%)	0,02	1	0,02	0,004	0,5
Zool en strip	Natural rubber (NR)	Virgin (0%)	0,37	1	0,37	0,72	89,4
Garen	Cotton fiber	Virgin (0%)	0,0005	1	0,0005	0,00045	0,1
Total				5	0,43	0,81	100

*Typical: Includes 'recycle fraction in current supply'

Manufacture:

[Summary](#)

Component	Process	Amount processed	CO2 footprint (kg)	%
MIRUM Rubber component	Polymer molding	0,035 kg	0,045	100,0
Total			0,045	100

Transport:[Summary](#)**Breakdown by transport stage**

Stage name	Transport type	Distance (km)	CO2 footprint (kg)	%
vrachtwagen	32 tonne (4 axle) truck	1e+03	0,029	100,0
Total		1e+03	0,029	100

Breakdown by components

Component	Mass (kg)	CO2 footprint (kg)	%
Veters	0,008	0,00054	1,8
MIRUM Rubber component	0,035	0,0024	8,1
MIRUM plant fibres/fillers	0,02	0,0014	4,6
Zool en strip	0,37	0,025	85,4
Garen	0,0005	3,4e-05	0,1
Total	0,43	0,029	100

Use:[Summary](#)**Relative contribution of static and mobile modes**

Mode	CO2 footprint (kg)	%
Static	0	
Mobile	0	
Total	0	100

Disposal:[Summary](#)

Component	End of life option	CO2 footprint (kg)	%
Veters	Reuse	0,00011	1,8
MIRUM Rubber component	Reuse	0,00049	8,1
MIRUM plant fibres/fillers	Reuse	0,00028	4,6
Zool en strip	Reuse	0,0052	85,4
Garen	Re-manufacture	7e-06	0,1
Total		0,0061	100

EoL potential:

Component	End of life option	CO2 footprint (kg)	%
Veters	Reuse	-0,013	1,6
MIRUM Rubber component	Reuse	-0,068	8,5
MIRUM plant fibres/fillers	Reuse	-0,004	0,5
Zool en strip	Reuse	-0,72	89,4
Garen	Re-manufacture	-0,00034	0,0
Total		-0,81	100

Notes:[Summary](#)