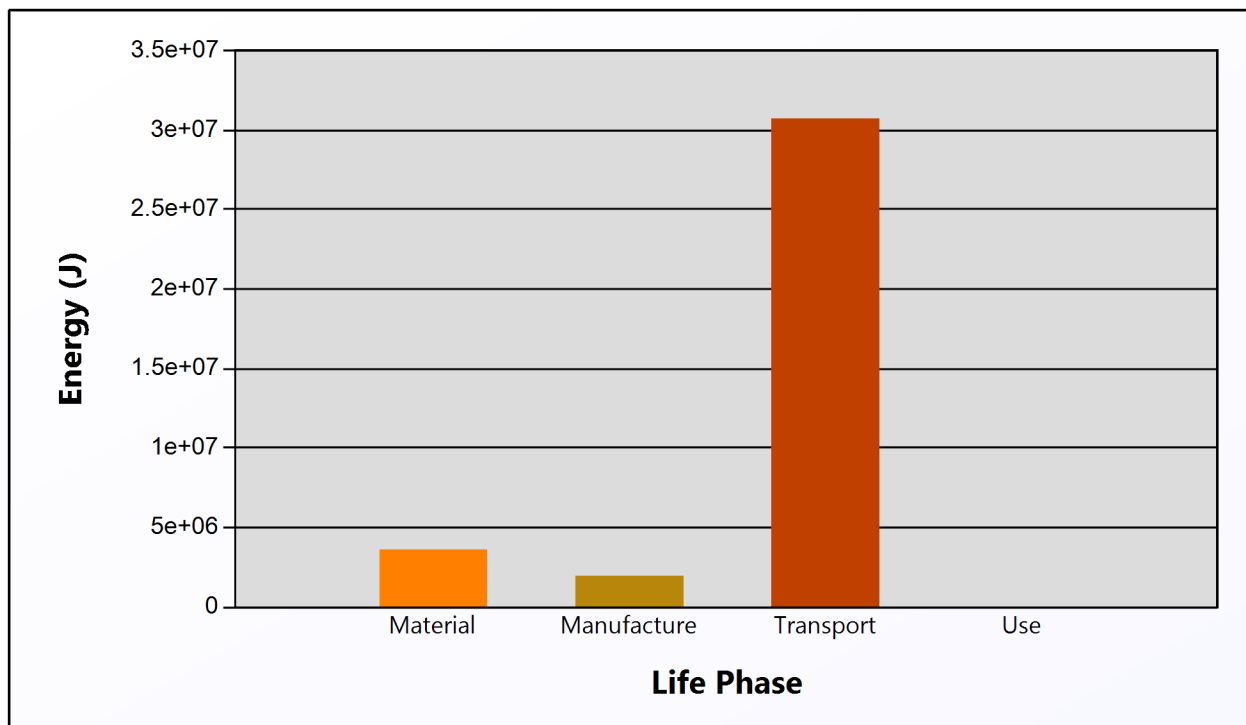


Product Name: Beer
 Product Life (years): 0
 Includes Recycled Fraction?: No
 Analysis: Energy efficiency

Summary of Life Phases:

[Detailed Breakdown](#)



Phase	Energy (J)	Energy (%)
Material	3.6e+06	10.0
Manufacture	1.9e+06	5.4
Transport	3.1e+07	84.6
Use	0	0.0
Total	3.6e+07	100

Equivalent annual energy (averaged over 0 year product life): Infinity J

Detailed Breakdown of Individual Life Phases

[Summary](#)

Material:

Analysis includes recycled fraction? No

Component	Material	Primary Production Energy * (J/kg)	Mass (kg)	Energy (J)	%
Bottle	Soda-lime glass	1.5e+07	0.23	3.5e+06	95.6
Cap	Low carbon steel	3.2e+07	0.005	1.6e+05	4.4
Beverage		0	0.37	0	0.0
Total			0.6	3.6e+06	100

* When applicable, primary production values account for recycle fraction in supply

Manufacture:

Component	Process	Processing Energy (J/kg)	Mass (kg)	Energy (J)	%
Bottle	Glass molding	8.6e+06	0.23	1.9e+06	99.4
Cap	Forging, rolling	2.4e+06	0.005	1.2e+04	0.6
Beverage		0	0.37	0	0.0
Total			0.6	1.9e+06	100

Transport:

Breakdown by transport stage Total product mass = 0.6 kg

Stage Name	Transport Type	Transport Energy (J/kg.m)	Distance (m)	Energy (J)	%
Overseas	Air freight - long haul	8.3	6.1e+06	3.1e+07	99.4
Domestic	32 tonne truck	0.46	6.5e+05	1.8e+05	0.6
Total			6.8e+06	3.1e+07	100

Breakdown by components Total transport distance = 6.8e+06 m

Component	Mass (kg)	Energy (J)	%
Bottle	0.23	1.2e+07	37.5
Cap	0.005	2.6e+05	0.8
Beverage	0.37	1.9e+07	61.7
Total	0.6	3.1e+07	100

Use:

Static Mode

Energy Input and Output Type	Electric to mechanical
Energy Conversion Efficiency	0.28
CO2 Emission (kg/J)	4.6e-08
Power Rating (W)	1.2e+02

Mobile Mode

Fuel and Mobility type	
Energy Consumption (J/kg.m)	0
CO2 Emission (kg/kg.m)	0
Product Mass (kg)	0.6

Usage (hours per day)	24	Distance (m per day)	0
Usage (days per year)	2	Usage (days per year)	0
Product Life (years)	0	Product Life (years)	0
Total Life Usage (hours)	0	Total Life Distance (m)	0

Relative contribution of static and mobile modes

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

Breakdown of mobile mode by components

Component	Mass (kg)	Energy (J)	%
Bottle	0.23	0	
Cap	0.005	0	
Beverage	0.37	0	
Total	0.6	0	100

Notes: