

html

# wuftxksvsl

carboncalcpcf.com - Product Carbon Footprint Dashboard

# 22.51 kgCO<sub>2</sub>e

Total Product Carbon Footprint (1 Unit)

Functional Unit

## 1.0 Unit

of wuftxksvsl

Carbon Intensity

## 22.51

kgCO<sub>2</sub>e / unit

Top Material Hotspot

## Aluminum Casing

6.00 kgCO<sub>2</sub>e

Primary Emission Phase

## Use Phase

~55.5% of total

## Lifecycle Stage Breakdown

Materials Acquisition & Pre-processing	10.03 kgCO2e (43.2%)
Manufacturing (Scope 1 & 2)	0.41 kgCO2e (1.8%)
Logistics (Upstream Transport)	0.27 kgCO2e (1.2%)
Use Phase	12.50 kgCO2e (53.9%)
End-of-Life Treatment	-0.70 kgCO2e (Net Credit)

Credit

## Key Insights & Hotspots

The **Use Phase** is the largest contributor, accounting for approximately **55.5%** (12.50 kgCO2e) of the product's total carbon footprint.

**Materials Acquisition & Pre-processing** is the second most significant hotspot, representing **44.6%** (10.03 kgCO2e), heavily influenced by high-impact materials like **Aluminum Casing**.

The **End-of-Life treatment** for wuftxksvsl results in a net credit of **-0.70 kgCO2e**, demonstrating positive impact from high recyclability.

## Material Carbon Impact

Aluminum Casing	6.00 kgCO2e (59.8%)
Printed Circuit Board (PCB)	2.00 kgCO2e (19.9%)
Lithium-ion Battery	1.50 kgCO2e (15.0%)
Recycled Plastic Housing	0.30 kgCO2e (3.0%)

## Recommended Action Plan for Reduction

- ✓ **Enhance Data Quality:** Prioritize collecting primary data from suppliers and utilize specific, up-to-date regional electricity grid mixes for manufacturing and use phases to improve accuracy.
- ✓ **Optimize Use Phase:** Collaborate with product design teams to significantly reduce energy consumption over the product's lifespan, addressing the largest emission hotspot.
- ✓ **Material Innovation & Circularity:** Investigate lower-carbon material alternatives or implement advanced circularity strategies for high-impact components like aluminum and lithium-ion batteries.
- ✓ **LSR Standard Integration:** Fully integrate the 2026 Land Sector and Removals (LSR) Standard requirements for any bio-based materials or land-use related processes in the value chain.