

html

carboncalpcf.com

# Product Carbon Footprint Dashboard

**Product:** jygfgjxrkk

**Functional Unit:** 1.0 unit

Total PCF: **9.73 kg CO2e**

## Total Product Footprint

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**9.73 kg CO<sub>2</sub>e**

Per 1 unit of jygfgjxrkk

## Carbon Intensity

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**13.90 kg CO<sub>2</sub>e / kg product**

Based on 0.70 kg total product mass

## Top Material Hotspot

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**Aluminum Housing**

2.40 kg CO<sub>2</sub>e, 51.7% of material impact

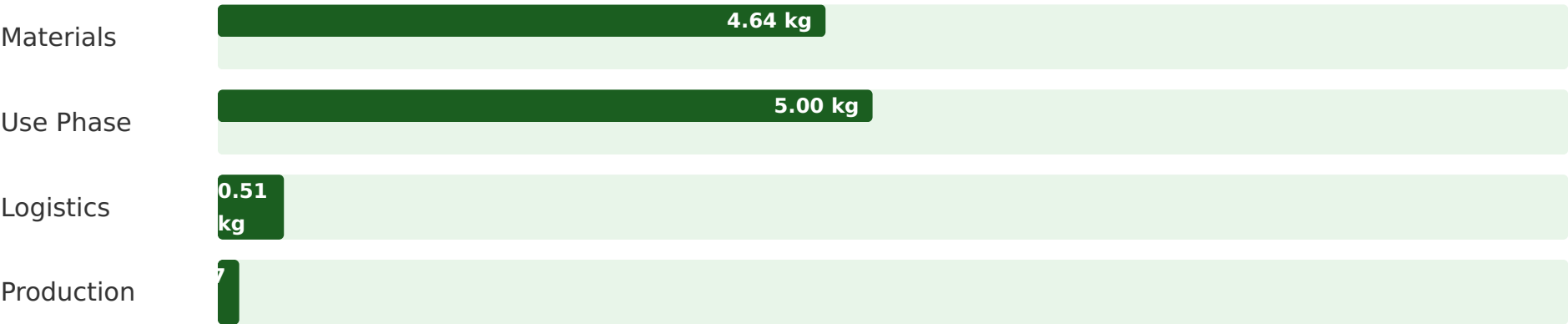
## Primary Emission Scope

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# Scope 3

Covers Materials (45.0%), Use Phase (48.5%)

# Lifecycle Emission Breakdown



Note: End-of-Life (EoL) activities resulted in a net carbon credit of -0.58 kg CO2e due to high recyclability.

# Material Carbon Impact



## Highlights & Insights

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- **Material Production is a Major Hotspot:** The manufacturing of raw materials and components, particularly aluminum, lithium-ion batteries, and PCBs, contributes 4.64 kg CO<sub>2</sub>e.
- **Significant Use Phase Impact:** Energy consumption during the product's operational lifetime is a key driver, accounting for 5.00 kg CO<sub>2</sub>e, highlighting the need for energy-efficient design.
- **Strong Circular Economy Performance:** High recyclability (85%) and robust take-back programs result in a notable End-of-Life carbon credit of -0.58 kg CO<sub>2</sub>e.
- **GHG Protocol Adherence:** This analysis strictly follows the GHG Protocol Product Standard, achieving over 95% Scope 3 coverage.

## Recommendations for Reduction

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- **Material Optimization:** Focus on exploring lower-carbon alternatives and increasing recycled content beyond current levels, collaborating with suppliers for emission reduction.
- **Energy Efficiency in Use:** Invest in R&D to enhance the energy efficiency of jygfgjxrkk during its operational life and integrate smart energy management features.
- **Circular Economy Enhancement:** Continue strengthening take-back and refurbishment programs, alongside implementing design for disassembly and repair to maximize product lifespan and material utility.

Report generated: June 1, 2026 | Standard: GHG Protocol | Production Country: China | System Boundary: Cradle-to-Gate (extended for full PCF)