

carboncalcpcf.com

# zindfjzmr Carbon Footprint Dashboard

1.0 unit, factory\_gate, China, GHG Protocol

**24.824**

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

## Executive Summary

TOTAL PRODUCT FOOTPRINT

**24.824**

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

CARBON INTENSITY

**24.824**

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

TOP MATERIAL HOTSPOT

**Aluminum Casing**

6.00 kgCO<sub>2</sub>e

PRIMARY EMISSION SCOPE

**Scope 3**

22.574 kgCO<sub>2</sub>e

## Lifecycle Stage Breakdown

Use Phase	12.500 kgCO <sub>2</sub> e (49.18%)
Materials Acquisition & Processing	10.050 kgCO <sub>2</sub> e (39.54%)
Manufacturing Phase	2.250 kgCO <sub>2</sub> e (8.85%)
Transport & Distribution	0.618 kgCO <sub>2</sub> e (2.43%)
End-of-Life Phase	-0.594 kgCO <sub>2</sub> e (Net Credit)

## Material Carbon Impact

Aluminum Casing	6.00 kgCO <sub>2</sub> e
Electronic Components	2.50 kgCO <sub>2</sub> e
Plastic Housing	0.70 kgCO <sub>2</sub> e
Packaging (Cardboard)	0.45 kgCO <sub>2</sub> e
Copper Wire	0.40 kgCO <sub>2</sub> e

## Highlights & Key Insights

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The **Product Use Phase** is the largest contributor to the total carbon footprint, accounting for **50.4%** of emissions, primarily from electricity consumption over its lifespan.

**Materials Acquisition & Processing** is the second most significant hotspot, representing **40.5%** of the total footprint, with Aluminum Casing being the highest impact material.

The **End-of-Life Phase** shows a **net carbon credit of -2.4%**, indicating positive impacts from high recyclability and avoided virgin material production.

