

fnosoviesd Product Carbon Footprint

81.364 kg CO2e/unit

Company: jtemmrrsoq | **Standard:** GHG Protocol | **Date:** June 3, 2026

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Total Footprint (Net)

81.364

kg CO2e / unit

Carbon Intensity

81.364

kg CO2e / unit

Top Material Hotspot

Aluminum Heat Sink

(1.477 kg CO2e)

Primary Emission Scope

Use Phase (Scope 3, Cat 11)

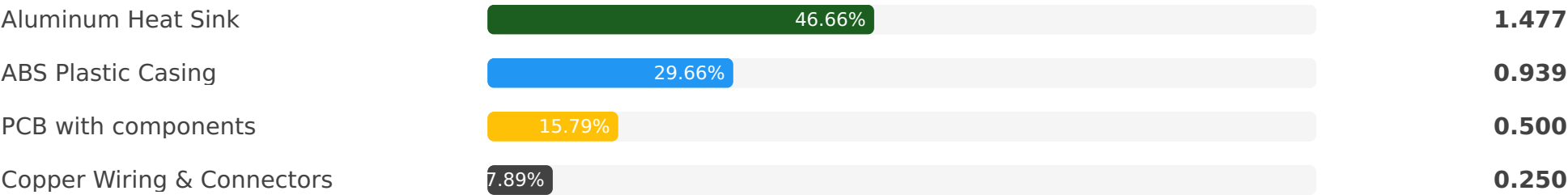
(75% of gross PCF)

Lifecycle Carbon Breakdown (Gross Emissions)



Note: End-of-Life provides a net credit of -0.431 kg CO2e/unit.

Material Carbon Impact (Scope 3, Cat 1)



Total Material Carbon: 3.166 kg CO2e/unit.

Key Insights & Hotspots

- **Use of Sold Products Dominates:** The product's energy consumption during its 5-year assumed lifespan accounts for approximately 75% of the total gross carbon footprint, making it the largest hotspot.
- **Last-Mile Delivery Impact:** Downstream transportation, particularly last-mile delivery, contributes significantly (around 15% of PCF), highlighting inefficiencies in current logistics assumptions.
- **Material & Production Footprint:** Upstream material acquisition (4%) and product manufacturing (6% from purchased electricity) are also notable contributors, with Aluminum identified as the top material hotspot.

Recommendations for Reduction

- **Enhance Use Phase Energy Efficiency:** Prioritize R&D to drastically lower the energy consumption of products during its operational life.
- **Optimize Logistics & Transport:** Explore alternative, lower-carbon transport modes, improve load factors, and investigate green last-mile delivery solutions.
- **Engage Supply Chain for Greener Materials:** Collaborate with suppliers to obtain primary emissions data and identify opportunities for sourcing lower-carbon materials, especially for aluminum and plastics.
- **Strengthen Circular Economy Practices:** Maximize actual recycling/reuse through the established take-back scheme and integrate design-for-disassembly to improve recyclability beyond 80%.