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Product Carbon Footprint for xvirorvxjg

Company: eeqvmvyoty | Standard: GHG Protocol

carboncalcpcf.com

41.76
kg CO_2e / unit

Total Footprint

41.76 kg CO_2e

Overall carbon emissions per unit.

Carbon Intensity

41.76 kg CO_2e/unit

Emissions relative to the functional unit.

Top Material Hotspot

Aluminium Alloy

Contributing 4.00 kg CO_2e from raw materials.

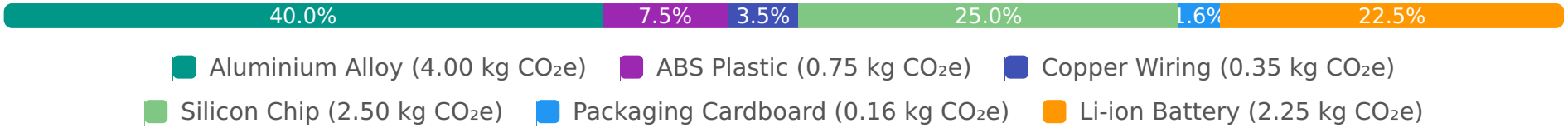
Primary Emission Scope

Scope 3

88.9% of total emissions from value chain.

Lifecycle Stage Breakdown

Raw Material Carbon Impact (10.01 kg CO_2e)



Highlights & Key Insights

- The **Use Phase** is the most significant carbon hotspot, accounting for 59.9% of the total PCF due to ongoing energy consumption during the product's lifespan.
- **Raw Material Acquisition** contributes 24.0% of emissions, with Aluminium Alloy and Silicon Chips being major contributors, highlighting the need for sustainable sourcing.
- **Scope 3 emissions** dominate the product's footprint, representing 88.9% of total emissions, underscoring the importance of value chain interventions.

Action Plan: How to Reduce Impact

- **Prioritize Use Phase Efficiency:** Invest in R&D to drastically reduce the energy consumption of xvirorvxjg during its operational lifespan.
- **Sustainable Sourcing:** Collaborate with suppliers for lower-carbon materials and explore recycled content for components like Aluminium and Lithium-ion batteries.
- **Increase Renewable Energy Adoption:** Accelerate the transition to 100% renewable energy at the manufacturing facility to eliminate Scope 2 emissions.
- **Enhance Circularity:** Strengthen take-back programs and design for disassembly to reduce End-of-Life impacts.