

Product Carbon Footprint: uqwjukxlie

Detailed Analysis Summary (Factory Gate Standard)

Total PCF (Factory Gate)

37.92 kg CO2e

Full Value Chain PCF (Illustrative)

48.22 kg CO2e

Product Name

Uqwjukxlie

System Boundary

Factory Gate

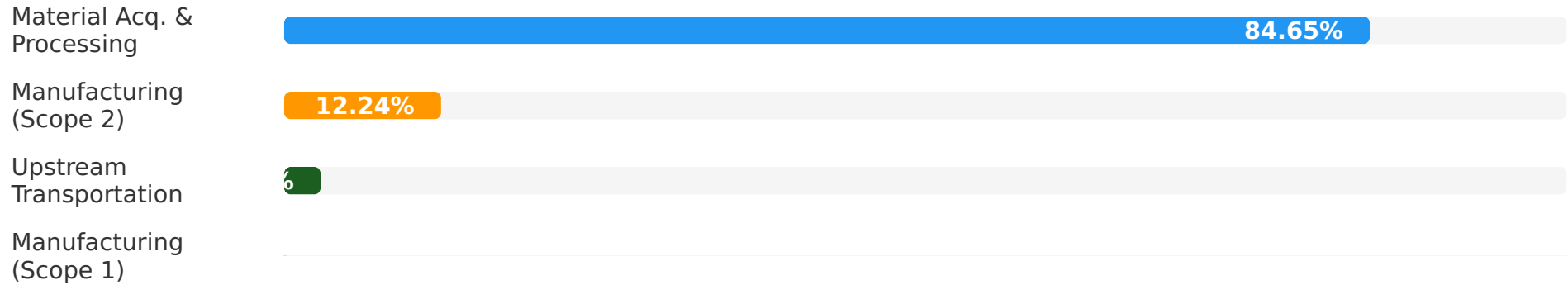
Top Material Hotspot

Aluminum Alloy Sheet

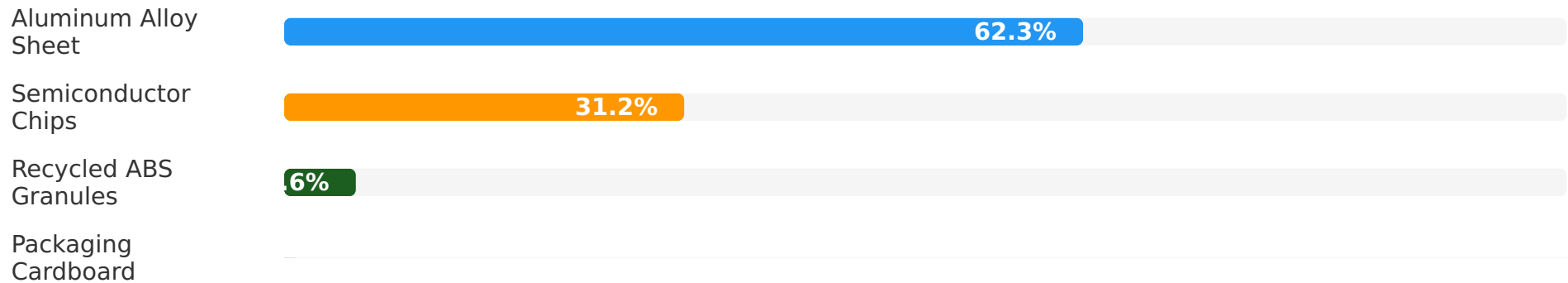
Primary Emission Scope (Factory Gate)

Scope 3 (84.65%)

Lifecycle Stage Breakdown (Factory Gate)



Material Carbon Hotspots (within Scope 3)



Key Highlights & Hotspots

- **Material Acquisition Dominates:** The upstream material acquisition and processing phase constitutes 84.65% of the factory-gate PCF, with Aluminum and Semiconductor chips being major contributors.
- **Use Phase Impactful:** In the full value chain assessment, the product's 5-year use phase significantly contributes 25.92% to the total footprint, emphasizing energy efficiency needs.
- **Recycling Credit:** The high recyclability (80%) and take-back programs result in a net carbon credit (-5.81%) at End-of-Life, demonstrating effective circularity.

Recommended Action Plan

- **Material Optimization:** Explore alternative materials, increase recycled content, and engage suppliers to reduce embodied carbon of high-impact components.
- **Energy Efficiency in Use:** Prioritize design improvements to reduce the product's energy consumption during its lifespan.
- **Renewable Energy Sourcing:** Pursue 100% renewable electricity for manufacturing operations and encourage suppliers to do the same to reduce Scope 2 & 3 emissions.