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Product Carbon Footprint Dashboard:

jrgrhwesty

Total PCF (Factory-
Gate)

7.70
kgCO₂e

Total PCF (Cradle-to-
Grave)

38.75 kgCO₂e

Key Metrics

Functional Unit

1.0 unit

Product: jrgrhwesty

Carbon Intensity

7.70 kgCO₂e/unit

Based on Factory-Gate boundary

Top Material Hotspot

Aluminium Alloy

5.00 kgCO₂e (72% of material impact)

Primary Emission Scope

Scope 3 (Use Phase)

Key Insights

Material Impact Driver

Material Acquisition, particularly Aluminium Alloy and Silicon Chips, is the largest contributor to the product's factory-gate carbon footprint.

Use Phase Dominance

The **Use Phase** significantly elevates the overall cradle-to-grave footprint, indicating high energy consumption during the product's operational lifespan.

Manufacturing Energy Footprint

Despite 60% renewable energy use, manufacturing energy in China still presents a notable emission factor, highlighting opportunities for further decarbonization efforts.

Action Plan: How to Reduce Impact

1. Material Decarbonization

Explore lower-carbon alternatives, increase recycled content, and optimize design for material efficiency, focusing on high-impact components like Aluminium and Silicon.

2. Enhance Production Efficiency

Continuously improve energy efficiency at the manufacturing facility and further increase renewable energy procurement beyond the current 60% in China.

3. Optimize Use Phase Design

Prioritize product design enhancements that reduce energy consumption during the product's lifespan and educate consumers on energy-efficient usage practices.