

Product Carbon Footprint Dashboard

Product: jsrexusmso | **Company:** gpjqklekts

carboncalcpcf.com

Total PCF: 53.71 kg CO₂e

Total Product Footprint

53.71 kg CO₂e

Per 1.0 unit of jsrexusmso

Carbon Intensity

53.71 kg CO₂e/unit

GHG Protocol Standard

Highlights & Emission Hotspots

- The ****Use Phase**** accounts for a staggering 84.25% of the total product carbon footprint, making it the dominant emission hotspot.
- ****Raw Materials**** contribute the second-highest share at 8.38%, with the Aluminum Casing being the primary material-related emitter.
- ****Manufacturing Energy**** in China, despite 40% renewable usage, still represents a significant 6.93% due to the remaining grid electricity mix.

Recommendations for Emission Reduction

1. **Optimize Use Phase Efficiency:**

- Invest in R&D to reduce the product's energy consumption during its 5-year operational life.
- Explore options to enable users to power the product with renewable energy sources.

2. **Material Decarbonization:**

- Engage suppliers for lower-carbon materials (e.g., recycled aluminum, low embodied carbon plastics).
- Redesign the product to use fewer materials or alternative, less carbon-intensive materials.

3. **Enhance Manufacturing Sustainability:**

- Increase renewable energy usage at the China manufacturing facility beyond the current 40%.
- Implement energy efficiency measures within production processes.

4. **Strengthen Circular Economy Initiatives:**

- Expand existing circular/take-back programs to maximize collection and recycling rates for the 70% recyclable portion.
- Investigate opportunities for product refurbishment and remanufacturing to extend lifespan.