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Product Carbon Footprint for gyrvukvfoe **4.86 kg CO2e**

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Total Product Carbon Footprint

carboncalcpcf.com

Total Footprint

4.86 kg CO₂e

Per 1.0 unit

Carbon Intensity

4.86 kg CO₂e/unit

Normalized per functional unit

Top Material Hotspot

Steel Casing

1.60 kg CO₂e from materials

Primary Emission Scope

Scope 3

Dominates across value chain activities

Key Insights & Hotspots

- **Materials Acquisition & Pre-processing:** This stage is the largest single contributor, accounting for 3.30 kg CO₂e, underscoring the need for sustainable material sourcing.
- **Use Phase Emissions:** The product's energy consumption over its 5-year lifespan contributes significantly (2.50 kg CO₂e), highlighting opportunities for energy-efficiency improvements.
- **Last-Mile Delivery Impact:** Despite shorter distances, last-mile logistics generate a notable 0.60 kg CO₂e, indicating higher intensity per package.

Recommended Actions for Reduction

- ✓ **Material Optimization:** Explore lower-carbon intensity materials, increase recycled content, and design for better recyclability.
- ✓ **Energy Efficiency in Use:** Investigate technologies and provide user guidance to minimize energy consumption during the product's lifespan.
- ✓ **Logistics Optimization:** Consolidate last-mile deliveries and explore low-emission transport options to reduce per-package emissions.
- ✓ **Enhanced Circularity:** Strengthen take-back and recycling programs, aiming for higher recovery rates and material upcycling.
- ✓ **Supplier Engagement:** Collaborate with suppliers to obtain primary emissions data and encourage their transition to renewable energy.