

carboncalcpcf.com

Product Carbon Footprint Dashboard

Product: pfpqyxqxqz | System Boundary: factory_gate | Standard: GHG Protocol

6.834 kg CO₂e

Total PCF (Factory Gate)

6.834

kg CO2e / unit
Total Factory Gate PCF

3.76

kg CO2e
Raw Material Impact

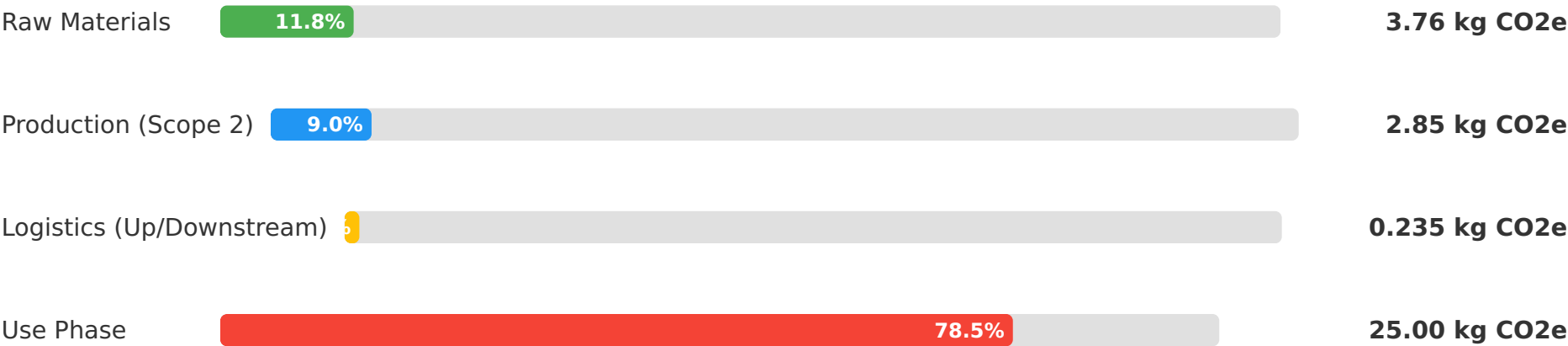
Scope 3

Primary Emission Scope
(Factory Gate)

Steel Casing

Top Material Hotspot
(2.00 kg CO2e)

Carbon Footprint Breakdown (Cradle-to-Grave)



Note: Breakdown based on total illustrated positive impact (31.845 kg CO2e). End-of-Life activities result in a credit of -0.546 kg CO2e/unit due to recycling benefits, offsetting overall emissions.

1. **Raw Material Optimization:** Investigate opportunities for lighter materials, increased recycled content, or materials sourced from suppliers with demonstrably lower carbon footprints. Prioritize collecting primary emissions data from suppliers for BOM items.
2. **Manufacturing Decarbonization:** Actively pursue strategies to increase renewable energy procurement beyond 50% for manufacturing operations in China, potentially through onsite solar or high-quality renewable energy credits, and enhance overall energy efficiency of production processes.
3. **Use Phase Energy Efficiency:** Implement product design changes focused on minimizing energy consumption during the product's lifespan to significantly reduce its long-term environmental impact.
4. **Supply Chain Logistics Optimization:** Develop and execute plans to optimize transport routes, explore lower-emission transport modes (e.g., rail or sea over long-distance road freight), and consolidate shipments for improved load factors across both upstream and downstream logistics.