

Carbon Footprint Analysis: yyheifihvo

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Standard: GHG Protocol | System Boundary: factory_gate | Country: China

22.38

kgCO2e / unit

Total Product Footprint

22.38 kgCO₂e

Carbon Intensity

22.38 kgCO₂e/unit

For 1.0 unit of product

Top Material Hotspot

Aluminum Casing

78.7% of material emissions

Primary Emission Scope

Scope 3 Upstream

Material Acquisition

Highlights & Key Insights

Material Acquisition Dominance: Upstream material production, particularly the Aluminum Casing, accounts for the largest share (~68% of gross emissions), making it the primary carbon hotspot.

Significant Use Phase Impact: The product's energy consumption during its 5-year lifespan contributes substantially (~28% of gross emissions), indicating a need for energy efficiency improvements.

Effective Circularity: The End-of-Life stage demonstrates a notable net carbon credit (-4.21 kgCO₂e) due to a 60% recyclability rate and robust recycling credits, showcasing strong circular economy efforts.

