

Product Carbon Footprint for efkndwolln

carboncalcpcf.com

20.91 kg CO₂e
Total Illustrative PCF

20.91

Total Carbon Footprint (kg CO₂e)

1.0 unit

20.91

Carbon Intensity (kg CO₂e/unit)

Per functional unit

Use Phase

Primary Emission Hotspot

12.5 kg CO₂e (~60%)

Scope 3

Dominant GHG Protocol Scope

18.85 kg CO₂e (90.14%)

Lifecycle Stage Breakdown

Use Phase	58.37%
Materials	31.06%
Production Energy	9.63%
Transport	0.93%

End-of-Life: -0.5 kg CO2e (Net Carbon Credit) - Due to high recyclability and material recovery programs.

Highlights & Insights

- **Use Phase Dominance:** The product's operational life accounts for approximately 60% of its total footprint, making energy efficiency a critical area for improvement.
- **Material Impact:** Raw material acquisition and processing, especially for components like Aluminum Alloy Casing, contribute significantly (~32%).
- **Scope 3 Importance:** Over 90% of emissions fall under Scope 3, highlighting the need for extensive supply chain engagement and comprehensive value chain analysis.

