

Carbon Footprint Dashboard

carboncalcpcf.com

Product: **mgfvmedlm** (1.0 unit)

Generated: May 21, 2026

Total PCF: 67.51 kgCO₂e

GHG Protocol Standard

Total Footprint

67.51 kgCO₂e

per Functional Unit

Carbon Intensity

4.22 kgCO₂e/kg

Based on 16 kg product weight

Top Hotspot

Materials

70.36% of total PCF

Primary Emission Scope

Scope 3

Key Insights & Hotspots

- The **Materials Acquisition & Pre-processing** stage is the dominant emission hotspot, accounting for over 70% of the total Product Carbon Footprint.
- **Scope 3 emissions**, primarily driven by materials and product use, constitute a significant 96.66% of the product's total carbon footprint.
- The **Use Phase** is the second largest contributor (20.74%), highlighting opportunities for energy efficiency improvements during product operation.

Recommendations for PCF Reduction

- **Material Optimization:** Focus on sourcing lower-carbon alternative materials and increasing recycled content for steel and plastic components.
- **Renewable Energy Expansion:** Continue increasing the share of renewable energy in production beyond the current 75% to further decarbonize manufacturing.
- **Use Phase Efficiency:** Investigate opportunities to reduce energy consumption during product use or extend product lifespan through design improvements.