

html

carboncalcpcf.com

Product Carbon Footprint Dashboard

High-End Smartphone

Total Lifecycle Emissions

47.4 kg CO₂e

Functional Unit

1.0 Smartphone

Estimated Lifetime

3 Years

Carbon Intensity

15.8 kg CO₂e/year

Primary Emission Scope

Scope 3 (100%)

Emissions by Lifecycle Stage

Production & Materials	89.8% (42.6 kg CO2e)
Use Phase	9.9% (4.7 kg CO2e)
Transportation	0.2% (0.1 kg CO2e)
End-of-Life Treatment	0.0% (0.01 kg CO2e)

Material Carbon Contribution (from 2.43 kg CO2e total materials)

Precious & Critical Metals	1.00 kg CO2e (41.1%)
Non-Precious Metals	0.75 kg CO2e (30.9%)
Silicon	0.40 kg CO2e (16.5%)
Plastics	0.24 kg CO2e (9.9%)
Glass/Ceramics	0.04 kg CO2e (1.6%)

Key Insights & Hotspots

