NEW ENVIRONMENTAL STUDY COMPLETE!

Clover Imaging Remanufactured Toner Cartridges Have a Lower Environmental Impact than OEM

Aspire Sustainability was commissioned by Clover Imaging Group to perform a comparative Life Cycle Assessment (LCA) study of representative remanufactured toner cartridges versus their original equipment manufacturer (OEM) counterparts. The comparative LCA study has a cradle-to-grave perspective.

Based on the environmental indicators evaluated and the data and assumptions used in this study, the Clover Imaging remanufactured black and color toner cartridges were found to exhibit lower environmental life cycle impacts compared to their OEM counterparts in ALL the statistically significant impact categories studied. Sensitivity and uncertainty analyses indicate that the results were robust with respect to key assumptions and are statistically differentiated.

Here are some of the key findings from the third-party, peer reviewed LCA:

AT LEAST 90%

RECYCLED CONTENT^V

Clover Imaging Remanufactured Black Toner Cartridge Compared to OEM Equivalent Cartridge



CARBON FOOTPRINT

53%



ENERGY FOOTPRINT ***

59%



NATURAL RESOURCES iv

52%



HUMAN HEALTH ^v

66%

Clover Imaging Remanufactured Color Toner Cartridge Compared to OEM Equivalent Cartridge



CARBON FOOTPRINT "

49%
LESS CARBON



ENERGY FOOTPRINT iii

52%
LOWER ENERGY



NATURAL RESOURCES ^{IV}

40%



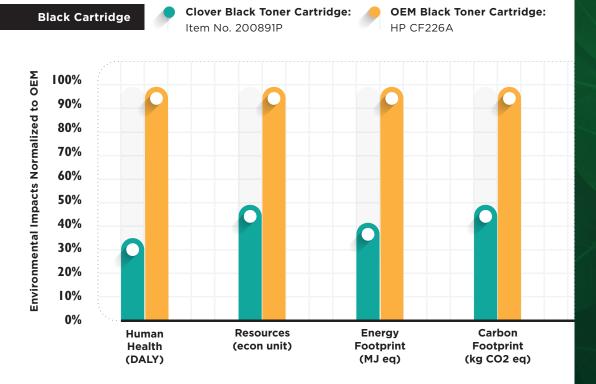
HUMAN HEALTH

70%

Remanufactured Printer Cartridges as a Percentage of OEM Impacts

Across all environmental categories studied, Clover Imaging remanufactured toner cartridges had a lower environmental impact compared to the equivalent OEM cartridges. Remanufacturing reuses an existing OEM cartridge shell and many of the components which makes it superior to recycling in that it doesn't require the additional energy expenditure that recycling requires to convert one good to another.





CLOVER IMAGING
BLACK TONER CARTRIDGE:
Item No. 200891P

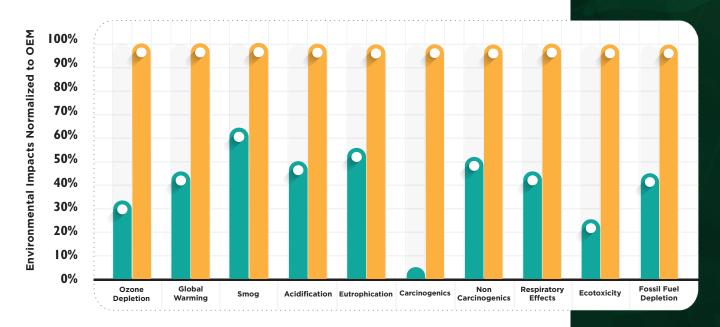
OEM
BLACK TONER CARTRIDGE:
HP CF226A

Black Cartridge

Clover Black Toner Cartridge: Item No. 200891P



OEM Black Toner Cartridge: HP CF226A



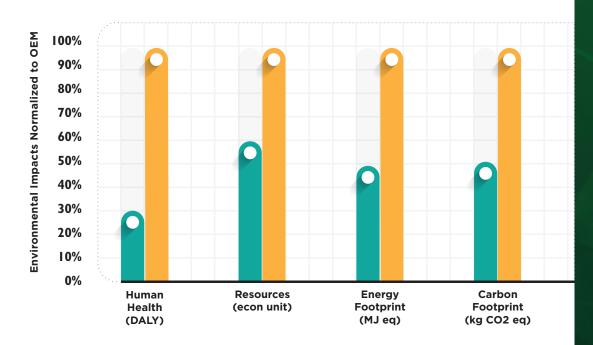
Environmental Impacts of Clover Imaging Remanufactured Cartridges as a Percentage of OEM



Color Cartridge

Clover Color Toner Cartridge:
Item No. 200945P

OEM Color Toner Cartridge:
HP CF410A

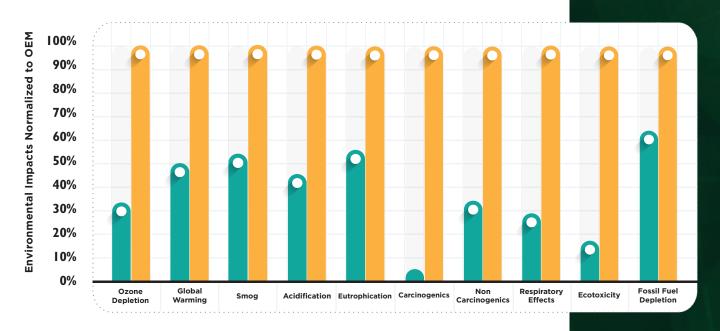


CLOVER IMAGING
COLOR TONER CARTRIDGE:
Item No. 200945P

OEM
COLOR TONER CARTRIDGE:
HP CF410A

Color Cartridge

Clover Color Toner Cartridge: Item No. 200945P OEM Color Toner Cartridge: HP CF410A





Calculate Your Environmental Impact

To get an estimate of how much you can reduce your carbon footprint with Clover Imaging remanufactured printer cartridges, try our environmental calculator.





Remanufacturing Empty Collections

Clover Imaging offers a cartridge collection program that ensures when your cartridges are empty, they are given another useful life. In addition to downloadable postage-paid labels, you will receive sustainability reporting to document your positive environmental impact.

Learn more at cloverimaging.com/reman

Clover Imaging Environmental & Quality Certifications













REFERENCES

- i 2022 Aspire Sustainability Comparative LCA, commissioned by Clover Imaging Group.
- ii Global Warming Potential / Carbon Footprint / Climate Change:

The global warming potential impact category refers to the warming that can occur due to emissions of greenhouse gases from human activities. This warming can lead to changes in the global climate which can cause negative impacts to human and ecosystem health.

iii Energy Footprint/Cumulative Energy Demand:

The energy footprint is the energy needed throughout a product's life cycle and includes non-renewable (fossil and nuclear) and renewable (biomass, water, solar, winder, geothermal) energy sources. The Cumulative Energy Demand (CED) of a product is the direct and indirect energy use throughout the life cycle, including the energy consumed during the extraction, manufacturing, and disposal. The CED method considers both renewable and non-renewable energy and the direct and indirect energy consumption.

iv Natural Resources:

The Resources score reflects depletion of the Earth's fossil and mineral resources. This category measures the geological distribution of mineral and fossil resources and assesses how the use of these resources causes marginal changes in the efforts to extract future resources. The quantification of damage to resource availability is based on the marginal increase in the cost of extracting resources, measured as dollars.

vi Human Health:

The Human Health score sums a variety of environmental impacts related to human health such as smog and ozone depletion. DALY stands for "Disability Adjusted Life Years," which is a measure of quality of life.

Based on empty cartridge weight

