

# Chocolate Powder Packaging

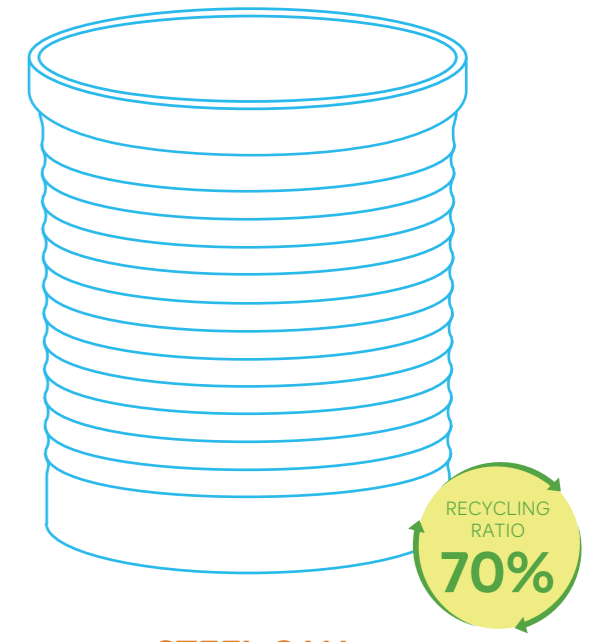
## CONTEXT:

The powdered chocolate is sold in rigid packages that guarantee the conservation of the product until its total consumption. In this context, the main options found in the market for this purpose are polyethylene pots and steel cans. To compare the environmental profile of these two alternatives, a Life Cycle Assessment study was carried out in partnership with ACV Brasil consultancy.



**POLYETHYLENE POT**

UNIT MASS  
**37 g**  
POT + COVER +  
SEAL + LABEL

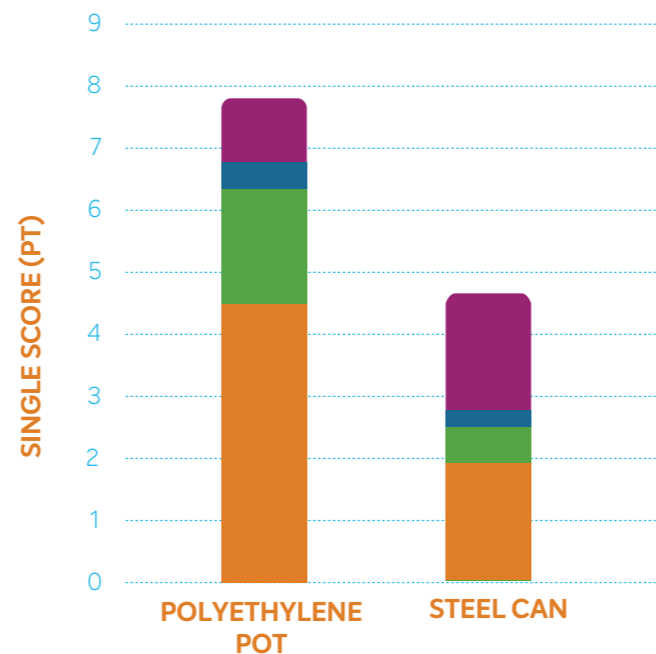


**STEEL CAN**

UNIT MASS  
**74 g**  
POT + COVER +  
SEAL + LABEL

## ADVANTAGES AND DISADVANTAGES:

- The plastic packaging has superior environmental performance compared to the metallic packaging in all impact categories, with the exception of Soil Use.
- By replacing 1 million steel cans with polyethylene pots, we will no longer carry 37 tons of packaging.



## SUSTAINABILITY INDICATOR

- CLIMATE CHANGE
- WATER USE
- RESPIRATORY INORGANICS
- SOIL USE

## RESULTS:

- Even with a lower recycling ratio (70% for steel can and 30% for plastic pots), the plastic alternative remains the best option, reducing total environmental impact by 41%.
- The production of raw materials (Polyethylene or Tinplate) is the stage that contributes most to the product's environmental impact.

	POLYETHYLENE POT	STEEL CAN
CLIMATE CHANGE	CO <sub>2</sub> 1x	CO <sub>2</sub> 2,3x
WATER USE	1x	2,2x
SOIL USE	2,1x	1x