

Life Cycle Assessment (LCA)

Super Eco100 Pro

Super Eco100 Pro is a 100% fossil-free EN-228 fuel that has been tested on multiple engines of different passenger vehicle categories and can be used straight away with the existing vehicles and distribution infrastructure.

Framework of the LCA

Goal: Calculation of the environmental performance of the Super Eco100 Pro

System Boundary: Cradle-to-Gate; Cradle-to-Grave

Functional Unit (FU): 1 kg Super Eco100 Pro

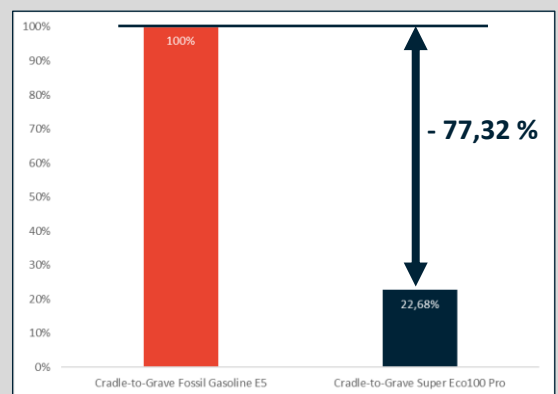
Methodology: The LCA is according to DIN ISO 14040:2006 and ISO 14044:2006. The LCA has been critical reviewed by SGS Institut Fresenius GmbH.

Data Sources: The LCA was created 2023 by an external Life Cycle Management team. The LCA is based on primary data from 2023 by P1 for the production process, while secondary data from Ecoinvent and suppliers is utilized for external processes and raw materials. The software Umberto LCA+ 10.0.3 was used for the LCA modeling.

Results

GHG emissions comparison with a fossil fuel

| System boundary | Value | Unit per FU |
|---|---------------|----------------------------|
| Super Eco100 Pro Cradle-to-Grave (WTW) | 0.8783 | kg CO ₂ eq |
| <i>Fossil Gasoline E5</i> <i>Cradle-to-Grave (WTW)</i> | <i>3.8728</i> | <i>kg CO₂eq</i> |



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