



SPECTRUM

INTRODUCTION

Bollé Safety committed to reduce the CO2 emissions of each of its products by 35% its CO2e emissions per product by 2027 (vs. 2021). The company developed a concrete action plan to reduce the greenhouse gases emitted by its own operations and of its value chain.

To reduce its greenhouse gas emissions, Bollé Safety has been working to precisely measure and understand the emissions linked to its product, across their lifecycle. The data used and the methodology developed are mostly based on two projects carried out with independent consulting companies:

- Carbon Footprint Assessment on Bollé Brands scopes 1, 2 and 3, realized with the independent consulting agency UTOPIES, following the GHG Protocol guidelines.
- 10 Life Cycle Assessments realized with the independent consulting company Gingko 21, using the EF 3.0 impact method, recommended by the JRC from the European Commission.

Data used for these projects:

- Primary data: Operational data collected between 2021 and 2023.
- Secondary data: Data from database or consultant research.
- Database: Ecoinvent 3.8 & Base Empreinte (ADEME).
- EcoTransIT world.
- Third-party validated data (supplier data, consultants research).

LCA STEPS

The perimeter covered by this methodology is from cradle to cradle, meaning it considers all GHG emissions arising from the extraction of raw materials (that will be components of PPE eyewear product) to the end of life of the product itself. The following sources of GHG emissions are excluded from the scope of the calculation:

- Other services linked to Bollé Safety or their suppliers (purchases of consultant services, marketing costs etc.), we only cover emissions directly linked to the product's lifecycle.
- Storage impacts are neglected because they represent less than 5% of the GHG emissions of product (eyewear products are stored at ambient temperatures and receive few manutention actions).
- Transport of Bollé Safety's products from a distributor to an end user, this depends greatly on our distributors' logistic on which we don't have a detailed vision.

PUBLIC INFORMATION

ESG-Report: <https://www.bolle-safety.com/esg-report.html>

White Paper: <https://www.bolle-safety.com/fr/white-paper-esg.html>



SPECIFIC PROJECT INFORMATION

Project Name: SPECTRUM

Product Reference: SPECTRUM

Export date: V1 - 07/10/2024

Database: Ecoinvent 3.8

Version Eco-design Studio: 4.5.1

LCA DETAIL

The SPECTRUM is a spectacle constituted of 1 lens, 1 frame con-injected, 2 buckles and 1 strap. These products are packed in our standard packaging. Please find below all the materials and process considered in the LCA.

PRODUCT:

- Lens: PC
- Frame – Hard part: RPC - 60% recycled
- Frame – Soft part: TPE
- Buckle: PA66
- Straps: Polyester

MANUFACTURING:

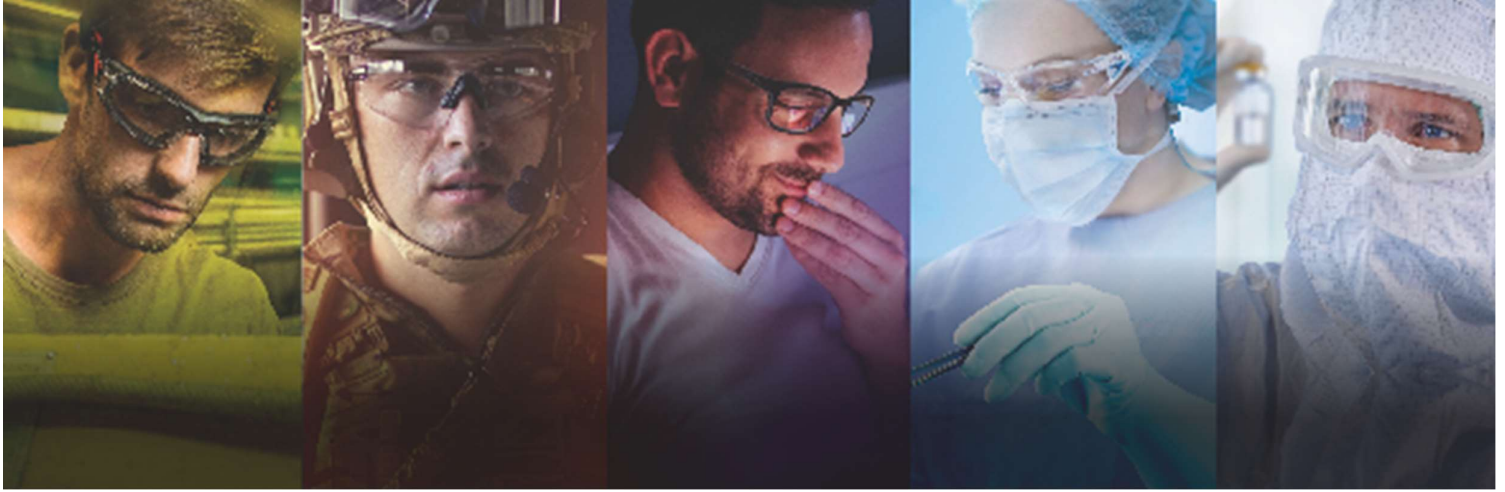
- Lens: Injection & Coating with 100% Renewable Energy
- Frame: Co-injection with 100% Renewable Energy
- Buckle: Injection with 100% Renewable Energy
- Straps: Sewing with 100% Renewable Energy

PACKAGING:

- Plastic bag: 100% recycled HDPE
- UI: Non-FSC Paper
- Inner: Non-FSC Cardboard
- Master: Non-FSC Cardboard

TRANSPORT:

- Sea transportation
- Truck transportation



LCA RESULT

For our internal LCA measurements, we are following the 6 criteria below, but we are able to calculate and follows the others. For this document we choose to give detailed information in the table below about the 2 most consolidated measurement we have : Climate Change & PEF Single score.

	Climate Change [GWP 100, EF 3.0] (kg éq. CO2)	PEF Single Score [PEF, EF 3.0]
Raw materials	0,5024	66,412
Supply	0,0000	0,0000
Manufacturing	0,00083	4,7080
Distribution	0,0308	4,1720
Use	0,0000	0,0000
End of life	0,0101	0,6653
Total	0,544 kg éq. CO2	75,957

