



# SUSTAINABILITY & RESPONSIBILITY

At SWARCO, corporate responsibility for the environment and society has a long tradition. We implement a range of measures to reduce our carbon footprint step by step.



## WHAT DEFINES THE ENVIRONMENTAL PROFILE OF OUR GLASS BEADS



\*value only applies to SWARCOFORCE glass filler beads & SWARCOBLAST glass blasting beads



Thanks to a consistent circular-economy approach, the production of SWARCOFORCE glass filler beads and SWARCOBLAST glass blasting beads results in an average of ~1.11 kg CO<sub>2</sub>e per kg of product (cradle-to-gate, including all emissions up to the factory gate).

### RECYCLED GLASS OVER PRIMARY MATERIALS

- Significant energy savings compared with new flat glass.

### REGIONAL SOURCING OF RAW MATERIALS

- Shorter transport routes and a stronger local supply chain.

### COMBINED LOGISTICS (RAIL & ROAD)

- Reduction of transport-related emissions.

### RECYCLABLE PACKAGING

- Resource-conserving solutions along the supply chain.

### USE OF WASTE HEAT

- Heating energy for adjacent buildings.

### INERT END PRODUCT

- No appreciable environment-relevant emissions after use.

## OUR CONTRIBUTION TO THE UN SUSTAINABLE DEVELOPMENT GOALS



Our actions contribute to the following SDGs:

- SDG 9: Industry, Innovation and Infrastructure
- SDG 12: Responsible Consumption and Production
- SDG 13: Climate Action

# ADVANCING ENVIRONMENTAL COMPATIBILITY CRADLE-TO-GATE: A HOLISTIC ACCOUNTING APPROACH



## CRADLE-TO-GATE: A HOLISTIC ACCOUNTING APPROACH

At SWARCO Indusferica, all product-related emissions are accounted for using the cradle-to-gate principle. This means every emission from raw-material extraction through to the finished product is included – covering all energy and material flows as well as emission-relevant production steps.

For each product, we record the following categories in a differentiated manner:

- Energy flows: e.g. electricity and heat consumption
- Material flows: raw materials and auxiliaries used
- Operational emissions: process-related emissions within production
- Systematic Route to Product Environmental Profiles

## SYSTEMATIC ROUTE TO PRODUCT ENVIRONMENTAL PROFILES

For precise environmental accounting, SWARCO Indusferica uses the Ecochain Helix software solution. It enables a comprehensive view of the product lifecycle – from raw-material extraction and in-house production processes through to packaging and shipping.



Key factors considered include:

- Consumption of raw materials
- Transport emissions
- Internal production processes
- Waste disposal
- Commuting and business travel
- Packaging materials used

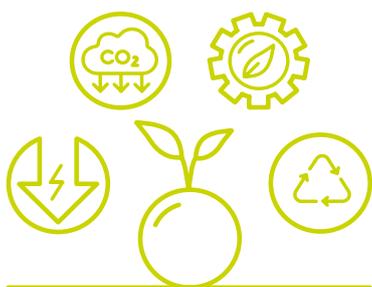
The collected data provides a robust basis for targeted R&D measures – with the goal of continuously reducing the carbon footprint of our products.

## RESPONSIBLE BY DESIGN – MATERIALS AND PROCESSES

Our glass beads are manufactured with a resource-conscious approach – using recycled raw materials, efficient logistics and energy-optimised processes.

Key measures:

- Use of high-quality industrial recycled glass (post-industrial waste)
- Traceable origin of raw materials
- Regional raw-material logistics
- Packaging with a high recycled content
- Utilisation of process waste heat



## IMPRINT

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