



Sustainability Fact Sheet

ROPETEX PERFORM 35C

Table of Contents

| | |
|---|----------|
| 1. Carbon Footprint Summary: Ropetex PERFORM 35C..... | 3 |
| 1.1. Background..... | 3 |
| 1.2. Summary of Result..... | 3 |
| 1.3. Methodology | 3 |
| 1.4. Goal of the Study | 3 |
| 1.5. Functional Unit(s) | 3 |
| 1.6. Impact Categories and Impact Assessment Methods | 3 |
| 1.7. Scope..... | 4 |
| 1.8. Emission Factors..... | 4 |
| 1.9. Data Assumptions and Limitations | 4 |
| 2. Factsheet Ropetex PERFORM 35 C | 5 |
| 2.1. Product Details..... | 5 |
| 2.2. Supplier Details | 5 |
| 2.3. CO ₂ e per meter product for all diameters..... | 5 |
| 3. System Boundaries | 6 |
| 4. About..... | 7 |
| 4.1. About Ropetex..... | 7 |
| 4.2. About Lifting Solutions Group..... | 7 |
| 4.3. About SCM Citra Oy..... | 7 |
| 5. Disclaimer | 7 |

1. Carbon Footprint Summary: Ropetex PERFORM 35C

1.1. Background

Ropetex is an Axel Johnson International - Lifting Solutions Group brand and a leading provider of steel wire rope. Lifting Solutions Group is a global player in lifting equipment, steel wire rope, height safety, and services. It operates as a group of companies that supply wire rope, hoists, overhead cranes, and other lifting products, together with related services. The vision is to be the preferred provider of lifting solutions, setting the standard for a more sustainable future. To achieve this, gaining additional product insights from a sustainability perspective is important, and performing Carbon footprint calculations is part of this ambition.

A consultancy company specializing in sustainability and the environment calculated and quality-checked the carbon footprint, following internationally recognized standards. While the calculation provides valuable insights into our climate impact, it also highlights areas for improvement and further investigation. The results of this calculation will guide our future sustainability efforts, including initiatives to reduce our emissions.

1.2. Summary of Result

The carbon footprint analysis highlights the significant role of upstream emissions, particularly those associated with material production. With 97% of total emissions originating from the upstream value chain, wire rod production alone accounts for approximately 50% of the total emissions per kilogram of product.

1.3. Methodology

ISO 14040, ISO 14044 & ISO 14067 are applied. This method fully aligns with the Life Cycle Assessment (LCA) structure. It is carried out in four phases: Goal and scope definition, Life cycle inventory (LCI), Life cycle impact assessments (LCIA), and interpretation. The Product Category Rule (PCR) for “Fabricated metal products” was also applied.

1.4. Goal of the Study

To provide a climate impact analysis of the product Ropetex PERFORM 35C

1.5. Functional Unit(s)

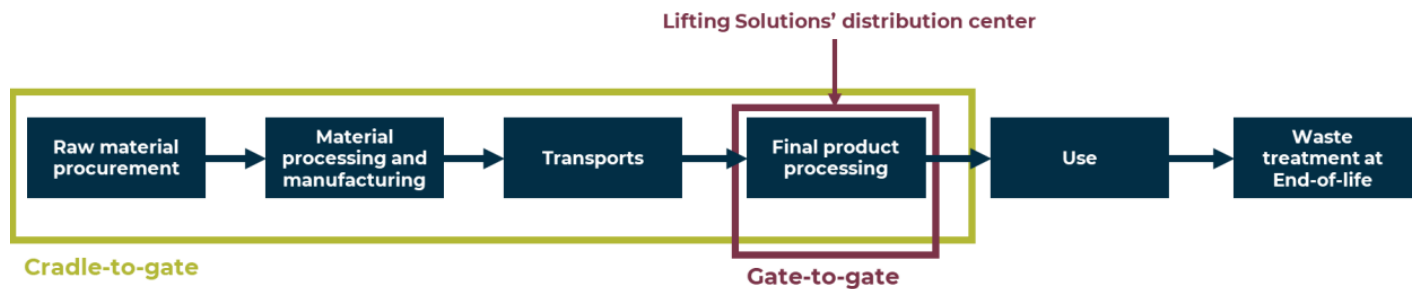
kg CO₂e / kg product & kg CO₂e / meter product

1.6. Impact Categories and Impact Assessment Methods

A single-issue approach is used, focusing only on climate change impact. Global Warming Potential (GWP) with a 100-year time horizon is used as the impact category under investigation.

1.7. Scope

The study uses a cradle-to-gate perspective, as illustrated below. Hence, use and end-of-life are excluded from the scope of the analysis.



1.8. Emission Factors

For wire rod, which is the primary ingoing material, data was available regarding the specific supplier of wire rod used in the steel wire manufacturing (Ropetex's second-tier supplier). A specific EPD existed for this material and producer, enabling the calculation of the main input material using a highly specific emission factor. Additionally, due to the availability of detailed information on production locations, material sourcing, and transport types, emission factors that account for geographic considerations can be applied in several cases, depending on the data availability in the Ecoinvent database.

1.9. Data Assumptions and Limitations

This carbon footprint analysis includes some assumptions and limitations that should be highlighted when interpreting the results.

Assumptions

- Ingoing transport has been reported to have a fill-rate of 100%, as an estimate. The used emission factor uses an average load-factor, including empty return trips.
- Whenever “type” of truck used for transportation is not specified, the emission factor for 25-ton truck is used.
- Emission factors specific to the geographical scope have been used when available. Else, factors with European or global scopes are used.
- Waste treatment of packaging materials is assumed to take place at the end destination (e.g., materials sent from the supplier to the Netherlands are assumed to be treated in the Netherlands, and geographically specific factors have been used when available)
- Wooden reels (used as packaging material) are reused in a similar way to EU pallets. It is therefore assumed that 60% of the reels are reused. Following the cut-off approach of reuse, only 40% of the emission factor is attributed to raw material production. The emission factor has been adjusted accordingly, excluding the material production phase for the reused portion of the reels.

Limitations

- Most primary data is estimated. The only specific data reported is the energy used in the wire rope production, as well as steel production (EPD from supplier).

2. Factsheet Ropetex PERFORM 35 C

2.1. Product Details

Product name: Ropetex PERFORM 35C

Ropetex PERFORM 35C is a flexible, high-quality, rotation-resistant steel wire rope. The strands are compacted, giving them a high breaking load and making them wear-resistant. Dimensions: 8 to 38mm.

Material composition between the dimensions is consistent.

2.2. Supplier Details

| | |
|--|---|
| Supplier name | (undisclosed) |
| Supplier has signed the Axel Johnson International Supplier Code of Conduct: | Yes |
| Supplier Code of Conduct Compliance audit has been conducted: | Yes |
| Products imported into the EU by | SCM Citra Oy Aseurinkatu 3-7, 20780 Kaarina, Finland |

2.3. CO₂e per meter product for all diameters

| PERFORM 35C | |
|-------------------|---|
| Rope diameter, mm | GWP 100 (kg CO ₂ e/m, cradle-gate) |
| 8.00 | 1.29 |
| 9.00 | 1.61 |
| 10.00 | 2.01 |
| 11.00 | 2.42 |
| 12.00 | 2.90 |
| 13.00 | 3.38 |
| 14.00 | 3.95 |
| 15.00 | 4.51 |
| 16.00 | 5.12 |
| 18.00 | 6.37 |
| 19.00 | 7.21 |

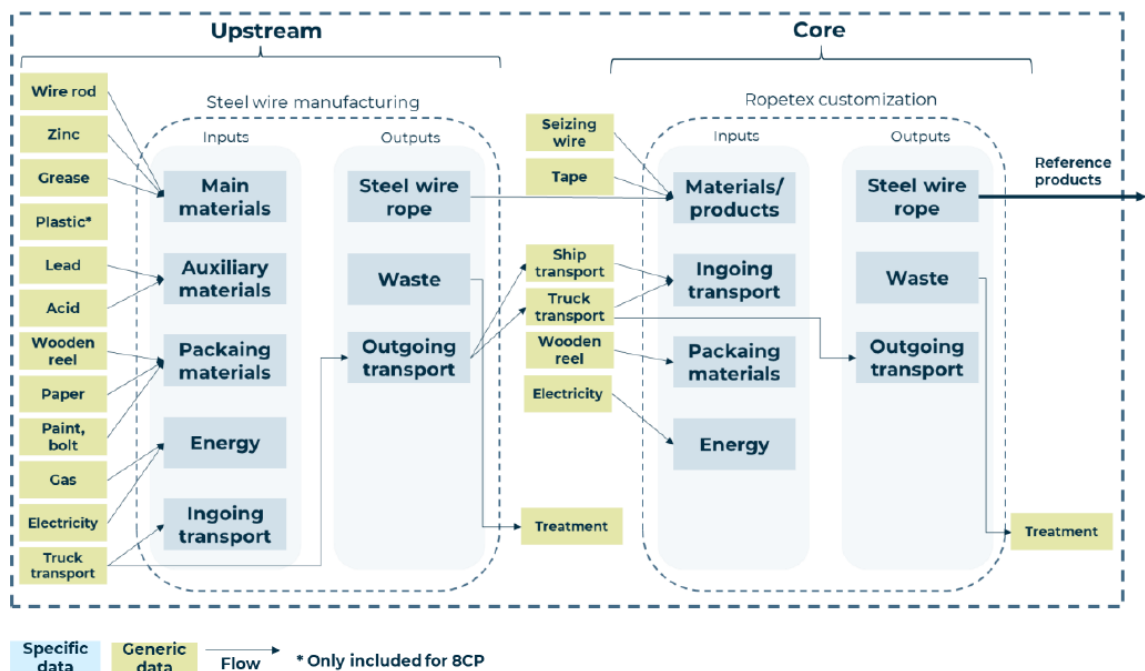
| | |
|-------|-------|
| 20.00 | 7.98 |
| 21.00 | 8.78 |
| 22.00 | 9.67 |
| 23.00 | 10.56 |
| 24.00 | 11.48 |
| 25.00 | 12.49 |
| 26.00 | 13.46 |
| 28.00 | 15.63 |
| 30.00 | 17.93 |
| 32.00 | 20.39 |
| 34.00 | 23.04 |
| 36.00 | 25.82 |
| 38.00 | 28.77 |

*GWP 100 = Global Warming Potential over a 100-year time frame

3. System Boundaries

The study used a cradle-to-gate perspective and considered CO₂e emissions from all activities during the lifecycle of steel wire ropes.

The flowchart below shows an overview of the production systems and their activities.



4. About

4.1. About Ropetex

Ropetex is an Axel Johnson International - Lifting Solutions Group brand and a leading supplier of steel wire rope and steel wire rope lubricants.

To read more on Ropetex products and brand information, visit <https://www.ropetex.com>

4.2. About Lifting Solutions Group

Lifting Solutions Group is a global player in lifting equipment, steel wire rope, height safety equipment and related services. The group today has 24 companies in 19 countries across Europe, with annual sales of EUR 420 million.

To read more about the companies in Lifting Solutions, visit <https://liftingsolutionsgroup.com/>

4.3. About SCM Citra Oy

SCM Citra Oy is a 100% subsidiary of Axel Johnson International AB and is the legal entity used for importing and distributing Powertex & Ropetex products.

5. Disclaimer

The information provided in this sustainability fact sheet is based on a Product Carbon Footprint (PCF) Analysis of the products listed. While every effort has been made to enhance the accuracy and reliability of the data, the results are subject to the following limitations and conditions:

- **Data Sources:** The LCA results are based on data available at the time of the assessment. Changes in production processes, raw material sourcing, and other factors may affect the accuracy of the results over time.
- **Assumptions and Estimates:** The LCA includes certain assumptions and estimates that may influence the outcomes. These assumptions are based on industry standards and best practices but may not fully capture all variables.
- **Scope and Boundaries:** The scope and boundaries of the LCA are defined by specific criteria and may not encompass all environmental impacts. The results should be interpreted within the context of the defined scope.
- **Comparative Analysis:** The LCA results are specific to the products assessed and may not be directly comparable to other products or assessments without considering differences in methodology, scope, and data quality.
- **Intended Use:** This fact sheet is intended for informational purposes only and should not be used as the sole basis for making decisions regarding product selection, procurement, or environmental impact assessments.

- **No Warranty:** While we strive to provide accurate and up-to-date information, we make no warranties or representations, express or implied, regarding the completeness, accuracy, or reliability of the information contained in this fact sheet.
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