Hartalega

# LEADING THE CHANGE

## Life Cycle Assessment (LCA) for Sustainable Glove Production

Hartalega embarked on our inaugural LCA to establish the carbon footprint for the identified key products manufactured by us. To achieve greater transparency in sustainable glove production, we **publicly disclosed the results of our critically reviewed LCA – making us the first in the industry to do so!**




**Data collected from NGC**



BDG™ Nitrile Biodegradable Gloves 3.5g

**0.034073** kg $CO_2$e per glove



Standard Nitrile Gloves 3.2g

**0.034073** kg $CO_2$e per glove



COATS® Colloidal Oatmeal Coated Gloves 3.2g

**0.034078** kg $CO_2$e per glove

Conducted according to the requirements of International Standards Organisation (ISO)

**ISO 14040**

**ISO 14044**

### Gate-to-Gate Boundary

Covers the life cycle of our key products from the "gate" of raw material acquisition to the "gate" of finished products leaving our factory

### Critically Reviewed by Third Party

Our methodology and results were critically reviewed in accordance with ISO 14071 by TÜV SÜD, a global industry leader in environmental impact audits

**Scan to find out more about our inaugural LCA**

**WATCH NOW**

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## Did You Know?

1. LCA is a compilation and evaluation of the inputs, outputs and the potential environmental impact of a **product, process, or service** through every phase of its life.

2. In contrast, greenhouse gas (GHG) inventory is a measurement of the **total greenhouse gas emissions** that an organisation **generates and reports**.

3. Hartalega quantifies and reports its organisational GHG emissions according to the **internationally accepted Greenhouse Gas Protocol Corporate Accounting and Reporting Standard (GHG Protocol)**. Other countries like Brazil, India, Mexico and Philippines have also developed their national GHG emissions programmes based on the GHG Protocol.

4. China uses the Guidelines for Accounting Methods and Reporting of Greenhouse Gas Emissions from Industrial Enterprises and Other Industries (trial) while Thailand and Vietnam use the Intergovernmental Panel on Climate Change (IPCC) 2006 to calculate its GHG emissions.

## Comparison of LCA Results Across Other Industries' Products*




149 pieces of gloves | 1 pair of jeans




19 pieces of gloves | 1 unit of cardboard box

| Product | LCA Results |
|---|---|
| **1 piece of Hartalega Standard Nitrile Glove (3.2g) / BDG™ (3.5g)** | **0.034073 kg $CO_2$ e** |
| **1 pair of jeans** | **5.06 kg $CO_2$ e** |
| **1 unit of cardboard box (1180 x 790 x 722 mm)** | **0.66 kg $CO_2$ e** |

Based on the LCA results, producing 149 gloves results in carbon emissions similar to those from a single pair of jeans, while 19 gloves produce emissions comparable to one cardboard box (1180 x 790 x 772 mm).

*** Remarks:**

1. LCA Scope used for comparison is Gate-to-Gate
2. Source: https://www.environdec.com/home

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**As an ESG leader**, it is our responsibility to ensure that our customers gain accurate knowledge and information on the manufacturing journey of our products, as **we continuously drive positive change for a sustainable future**.

Thank you once again for choosing Hartalega as your long-term and trusted business partner. Please don't hesitate to reach out to our Sales Team if you have any questions or need further information.

**CONTACT US**
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