Environmental footprint Analysis Report

Amorim Sports · Nature infills

AMORIM CORK COMPOSITES

Context

Cork is an ecological and sustainable material 100% natural, renewable, recyclable and reusable.

Corticeira Amorim

Corticeira Amorim is the largest world producer of cork products, championing the sector since 1870. The company has a portfolio of products with applications in multiple industries, such as wine, construction, flooring, aeronautical, automobile, footwear, among others. The company has implemented an integrated production process that ensures that no cork is wasted.

Amorim Cork Composites

Amorim Cork Composites, a subsidiary of Corticeira Amorim is focused in producing innovative solutions with combinations of cork and other materials, by recycling, reusing and reinventing natural and organic materials.

Amorim Sports

Amorim Sports is part of Amorim Cork Composites and is dedicated to providing solutions for sports surfaces. Produced with cork, these components are used in artificial sports pitches (football, rugby and other sports fields).

Objective

The main purpose of this study is to quantify the potential environmental impacts generated by Amorim Sports infills (Amorim Nature infills range).



Methodology

This study was based on a tool specifically developed by PwC – PricewaterhouseCoopers based on ISO 14040, which makes possible to estimate the Carbon Footprint associated to granules produced from cork, from the management phase of the cork oak forest, transportation of these raw materials, cork boiling process, processing, packaging and energy consumption to the factory gate, using the Cradle-to-Gate approach (which does not include transport to our customers, nor application or end-of-life destination).

The value of cork and energy consumption are based on average values, updated annually.



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Results

Carbon Balance

For the average weight **Amorim** Sports · Nature infills when

considering carbon sequestration in the cork oak montado, the carbon balance reaches up to:

-72,5 $kg CO_{2eq}/1kg$

Carbon Foot Print

For the average weight Amorim Sports · Nature infills when considering carbon sequestration in the cork oak montado, the carbon footprint reaches up to:

-1,2 kgCO_{2eq}/1kg ORBON BALY **CU**2 FGATIN

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Main conclusions

- 1. Amorim Sports' Nature infills have a negative carbon balance when considering the carbon sequestration of cork oak forests and production-related emissions.
- 2. Amorim Sports' Nature infills carbon balance reaches up to -72,5kgCO₂e/Kg
- 3. Amorim Sports' Nature infills fosters carbon sequestration in the cork oak forest that exceeds the CO₂ emissions from its production process.

Disclaimer

This calculation of the carbon footprint is based on applying the emission factors to the activity of Amorim Cork Composites' business data and assumptions.

The results presented are not verified by third parties.

Biography

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Amorim Cork Composites USA

26112 110th Street Trevor, WI 53179, USA T. +1 262 862 2311 F. +1 262 862 2500 E. info.acc.usa@amorim.com

www.amorimcorkcomposites.com