WIZ chemicals
additives for decorative laminates

Product Carbon Footprint (PCF)

ALTON line of additives for decorative plastic laminates

PRODUCT CARBON FOOTPRINT

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PRODUCT CARBON FOOTPRINT
GENERAL INFORMATION

OUR PRODUCT CARBON FOOTPRINT

- This document aims to describe and quantify in kg of CO2 equivalent (functional unit) the results of the analysis of the carbon (or climate) footprint of the main families of additives for decorative plastic laminates

- CFP's analysis and its findings results refer to GHG emissions related to product families in the period from 1 January 2023 to 31 December 2023.

PRODUCT CARBON FOOTPRINT

The product Carbon Footprint is the total amount of carbon dioxide (CO_2) and other greenhouse gas (GHG) emissions associated with a product.

ISO 14040 and ISO 14044 are international standards that provide guidelines and requirements for life cycle analysis (LCA) and environmental impact assessment, while **ISO 14067:2018** specifically concerns the Product Carbon Footprint. These standards define the principles and procedures for conducting a complete and accurate life cycle analysis of products, processes and services, including the assessment of environmental impacts, including greenhouse gas emissions.

PRODUCT CARBON FOOTPRINT
METHODOLOGY 1/3

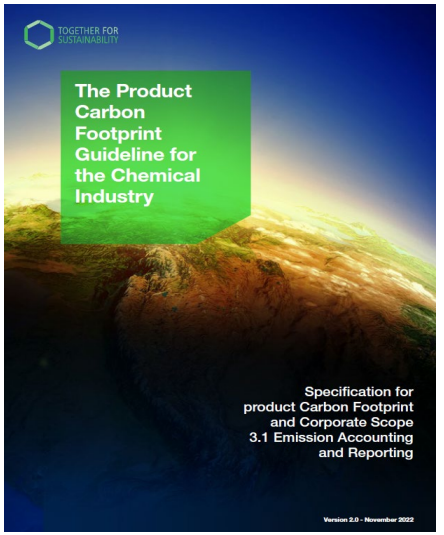
REFERENCE STANDARDS

The methodological references used in the WIZ chemicals' Product Carbon Footprint analysis are represented by the following international technical standards and industry guidelines:

- GHG Protocol - Product Life Cycle Accounting and Reporting Standard
- International standard UNI EN ISO 9001:14067
- TFS - The Product Carbon Footprint Guideline for the Chemical Industry: Specification for product Carbon Footprint and Corporate Scope 3.1 Emission Accounting

TFS – Together For Sustainability is an initiative in the chemical sector. Members are chemical companies representing global annual turnover of more than €800 billion and global spending of more than €500 billion in the chemical industry.

The Product Carbon Footprint Guideline for the Chemical Industry is the guideline issued by TFS for the reporting of Product Carbon Footprint.



PRODUCT CARBON FOOTPRINT
METHODOLOGY 2/3

DATA COLLECTION PROCESS AND SOURCES

The Carbon Footprint was carried out through an inventory of greenhouse gas emission sources and the use of methodologies for calculating equivalent tons of CO2 which provide for a selection of emission factors based on sector best practices (GHG protocol, IPCC – International Panel on Climate Change, ecc.)

TYPES OF DATA	DESCRIPTION	DATA SOURCES
PRIMARY DATA	Collected directly through: • measurement and/or direct recording • calculation based on direct measurements • from an estimate based on pre-existing information	• Purchases of natural gas • Electricity purchases • Bill of materials of individual products • Power of the machinery used • Transportation details • Technical data sheets of the machinery used in production activities
SECONDARY DATA	Coming from : • database Ecoinvent • bibliographic sources that reflect the conditions of processes considered	• Emissions generated by the extraction of raw materials • Emissions generated by the extraction and processing of raw materials

PRODUCT CARBON FOOTPRINT
METHODOLOGY 3/3

GHG TAKEN IN CONSIDERATION

GHG ANALYZED

- Carbon dioxide (CO_2)
- Methane (CH_4)
- Nitrous oxide (N_2O)

EMISSION FACTORS

SCOPE **1**	Coefficients used for the inventory of CO2 emissions in the UNFCCC national inventory for the calculation of emissions from 1st January to 31st December 2023 **MATTM – ETS 2023**
SCOPE 2	Emission factor from the Higher Institute for Environmental Protection and Research **ISPRA 2023.**
SCOPE **3**	▪ Bank of average emission factors for road transport– **ISPRA 2023** ▪ "**IPCC 2021** - Impact Category "Climate change fossil" e "Climate change: biogenic" – GWP 100 (Global Warning Potential) - Activity Production. – **DATABASE ECOINVENT**

PRODUCT CARBON FOOTPRINT
REPORTING PERIMETER 1/2

PRODUCTS IN SCOPE: ADDITIVE LINES FOR DECORATIVE PLASTIC LAMINATE PRODUCTS

The ALTON line constitutes a complete range of additives for the production of decorative plastic laminates and chipboard panels

The CFP reporting perimeter includes the product families of the ALTON line.

- WETTING AGENTS
- SURFACE MODIFIERS
- HARDENER
- PLASTICIZERS
- RELEASE AGENT
- ANTIBACTERIAL
- ANTIBLOCKING
- SLURRY (*Titanium Dioxide dispersions*)
- ANTISCRATCH
- VARIOUS

PRODUCT CARBON FOOTPRINT
REPORTING PERIMETER 2/2

THE PERIMETER OF THE ACTIVITIES: CRADLE-TO-GATE

The reporting perimeter of the Carbon Footprint of additives for decorative plastic laminates by WIZ chemicals has been defined according to a cradle-to-gate product-oriented approach, excluding activities that the reference standards indicate as "non-attributable processes" and downstream activities

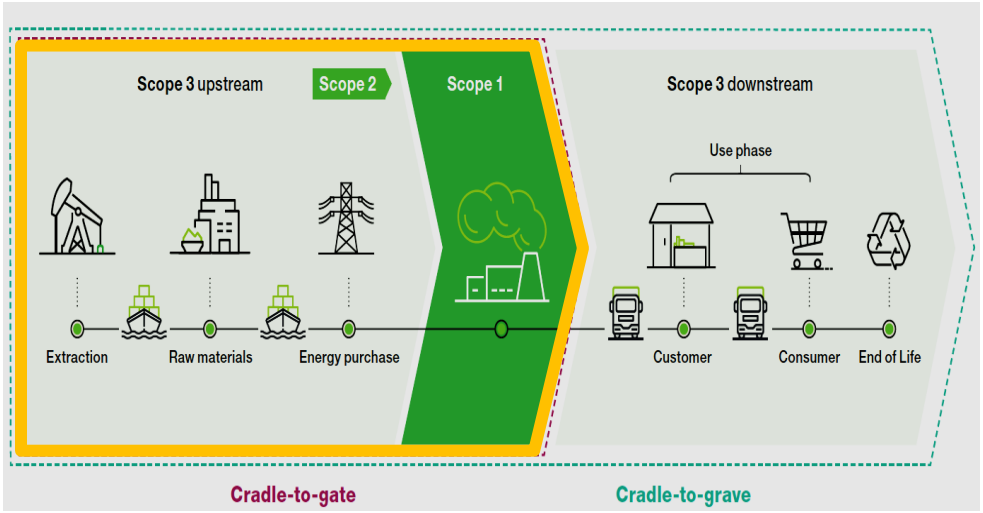
The activities covered by the analysis include the following processes:

EXTRACTION
PRODUCTION OF RAW MATERIALS
TRANSPORTATION

(Scope 3 - upstream)

ENERGY PURCHASE (Scope 2)

PRODUCTIVE PROCESS (Scope 1)



PRODUCT CARBON FOOTPRINT VALUES (CFP) – ALTON

For more details contact your WIZ Area Manager or

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