

Product Environmental Declaration (Type II)

DEHNIT Earthing Procedure

Type II according to ISO 14021 including life cycle impact assessment (LCIA)

Article Number: 573000

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General Information:

This environmental declaration is based on the international standard ISO 14021 (Environmental labels and declarations – Self declared environmental claims – Type II environmental labelling). The data in this document has been evaluated on a full-scale life cycle assessment (LCA) study according to ISO 14040/44, Category Rules: PCR 2019:14 Construction products (EN 15804+A2).

DEHN is dedicated to an environmentally conscious design of its products and has implemented an integrated management system according to ISO 9001, ISO 14001, ISO 50001 and ISO 45001.

Name of the Product: DEHNIT Earthing Procedure 25 Kg

Name of the variants of the product: No variants applicable for this product

Description of the product: Earthing resistance improvement compound (Special clay)

Function of the product: Highly swellable, powdered special clay used in earthing (grounding) systems.

Analysis of the Product: Per Packaged Unit which is 25KG

Product Carbon Footprint Value: 3.21 kg CO₂ eq

Material Composition of the Product

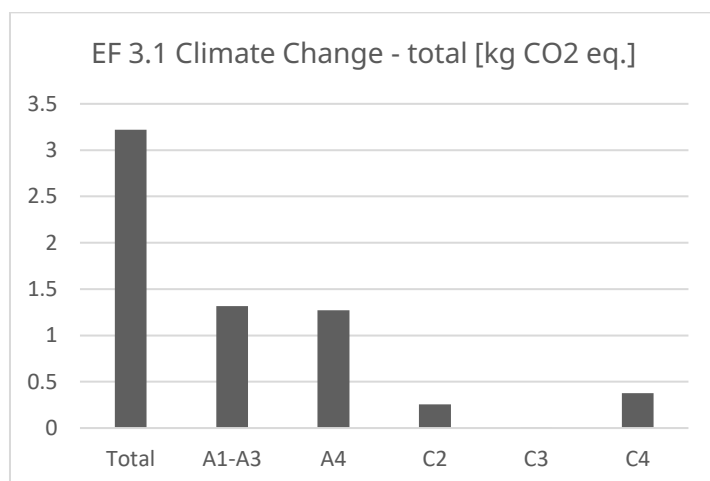
Material Group	Mass Share %
Special Clay	98
Packaging and other	2

Life Cycle Stages and their reference scenarios

Product Stage			Construction process Stage		Use Stage							End-of-Life Stage				Benefits and loads beyond the system boundaries	
Raw material supply	Transport	Manufacturing	Transport	Construction Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction, demolition	Transport	Waste processing	Disposal	Reuse-recovery-recycling potential	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	

Key environmental performance indicators

The following impact categories were analyzed as part of the product's environmental footprint. The results are calculated using the LCIA method EF 3.1, in accordance with EN 15804+A2. The LCA was conducted using the Sphera LCA tool, with background data from Ecoinvent 3.11 and additional professional datasets (MLC database 2025). The completeness of the LCA results is ensured by collecting the primary data for the resources used such as energy, fuel, and material. In case of the absence of the primary data, datasets with the nearest scientific assumptions were considered.



Statement here that the results can be used for the similar products according to EN50693. For the representation of the results EN 15804 +A2 based on EF 3.1 is used and described below.

EN 15804 +A2 (based on EF 3.1)

1. Environmental impact indicator	Total	A1-A3	A4	C2	C3	C4
Climate Change - total [kg CO2 eq.]	3.171	1.254	1.273	0.255	0.014	0.374
Climate Change, fossil [kg CO2 eq.]	3.205	1.304	1.272	0.254	0.000	0.374
Climate Change, biogenic [kg CO2 eq.]	-0.037	-0.052	0.001	0.000	0.014	-0.001
Climate Change, land use and land use change [kg CO2 eq.]	0.003	0.002	0.000	0.000	0.000	0.001
Ozone depletion [kg CFC-11 eq.]	0.000	0.000	0.000	0.000	0.000	0.000
Acidification [Mole of H+ eq.]	0.016	0.010	0.003	0.001	0.000	0.003
Eutrophication, freshwater [kg P eq.]	0.000	0.000	0.000	0.000	0.000	0.000
Eutrophication, marine [kg N eq.]	0.005	0.003	0.001	0.000	0.000	0.001
Eutrophication, terrestrial [Mole of N eq.]	0.055	0.037	0.009	0.002	0.000	0.008
Photochemical ozone formation, human health [kg NMVOC eq.]	0.019	0.010	0.005	0.001	0.000	0.002
Resource use, mineral and metals [kg Sb eq.]	0.000	0.000	0.000	0.000	0.000	0.000
Resource use, fossils [MJ]	45.786	17.766	19.370	3.874	0.002	4.775
Water use [m³ world equiv.]	0.677	0.497	0.115	0.023	0.000	0.041

2. Resource use indicators

Use of renewable primary energy (PERE) [MJ]	3.699	2.344	0.299	0.060	0.000	0.997
Total use of renewable primary energy resources (PERT) [MJ]	3.699	2.344	0.299	0.060	0.000	0.997
Use of non-renewable primary energy (PENRE) [MJ]	45.786	17.766	19.370	3.874	0.002	4.775
Total use of non-renewable primary energy resources (PENRT) [MJ]	45.786	17.766	19.370	3.874	0.002	4.775
Use of net fresh water (FW) [m3]	0.016	0.012	0.003	0.001	0.000	0.001

3. Output flows and waste categories

Hazardous waste disposed (HWD) [kg]	0.068	0.044	0.020	0.004	0.000	0.000
Non-hazardous waste disposed (NHWD) [kg]	25.817	0.560	0.186	0.037	0.010	25.024
Radioactive waste disposed (RWD) [kg]	0.000	0.000	0.000	0.000	0.000	0.000

Other Environmental Information

DEHN can provide, based on information from our suppliers, with the following details in accordance with the RoHS Directive 2011/65/EU (including Delegated Directive (EU) 2015/863), the REACH Regulation (EC) No. 1907/2006 in its current version, as well as the Waste Framework Directive 2008/98/EC.

Article number	Description	RoHS status	RoHS exemption	REACH SVHC*	CAS No.	SCIP number**
573000	DEHNIT 25KG	Not applicable	---	No substance above threshold	---	No SCIP notification required

*) The Candidate List always refers to the latest version.

**) All SCIP notification numbers refer to articles purchased from DEHN SE.

Legal Disclaimer

This Environmental Product Declaration is for information purposes only. The results reflected only present the parameters of environmental profile. It does not guarantee performance, quality or regulatory compliance. The declared values must not be used for purposes other than those allowed under the EPD programme rules. There is no liability for decisions or actions taken based on the information contained in this document.