INOX E

ENVIRONMENTAL PRODUCT DECLARATION

COMPANY INFORMATION: REC Indovent AB

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Quality certified ISO 9001:2015
Environmental certified ISO 14001:2015

Following data concerns INOX E with length 1 m and inside and outside diameter 110/116 mm.

1. PRODUCT DESCRIPTION

INOX E is a flexible duct made for conveyance of very hot fumes.
INOX E has a CE marked under certificate 2392-CPR-0719.
Declaration of Performance No: 001DOP2017-12-15
For recommended range of application we refer to the product catalogue.

2. DECLARATION OF CONTENTS

The duct is made of one layer of folded acid-proof sheet steel equivalent to AISI 316L.

The product does not contain substances that are included in the Priority guide PRIO from Swedish National Chemical Inspectorate.

3. INPUT MATERIALS

Material:	weight-%	weight(kg)
Stainless steel	100	0,7

Energy consumption during steel production:

Electricity	2,49 MJ/INOX E
Oil	43,0 g/INOX E
Bottled gas	40,0 g/INOX E

Emissions to water during steel production (Expressed as g/INOX 2000-E):

Molybdenum (Mo)	2,52
Nitrate-nitrogen (NO_3-N)	0,40
Nickel (Ni)	0,13
Total nitrogen (N_{tot})	0,08
COD	0,016

Emissions to air during material production (expressed as g/INOX E):

Carbon dioxide (CO_2)	319,20
Nitrogen oxides (NO_x)	0,61
Sulphur dioxide (SO_2)	0,11
Hydrocarbons (HC)	0,056
Dust	0,047
HFC	$2{,}03*10^{-3}$
HCFC	$5{,}04*10^{-4}$

4. PRODUCTION

Energy consumption during production phase:
Estimated to 3,2 MJ/INOXE.

Emissions to water: Does not exist
Emissions to air: Negligible

Production waste (rest products):
1-2 % of used material per product form production waste. The waste is recycled.

5. DISTRIBUTION OF FINAL PRODUCT

Packing materials: Corrugated cardboard and wooden loading stool. The packing material can be recycled and then re-used, producing either new material or energy.

REC Indovent is affiliated with REPA. (Return system for packing material.)

Transportation:
Way of transportation: Truck
Fuel: Diesel, Swedish Environmental Class 1 (0,001 % sulphur)

Estimated emissions due to transporation (expressed as g/INOX E):

Carbon dioxide (CO_2)	226,06
Nitrogen oxides (NO_x)	4,73
Carbon monoxide (CO)	0,88

6. USING PHASE

The product is emission free during use.

7. DISPOSED PRODUCT

The disposed product does not contain environmentally hazardous waste. Materials that are parts of the disposed product should be separated in order to enable re-use alternatively recycling.

8. ENVIRONMENTAL IMPACT

Environmental impact that the largest emissions are associated with:

N_{tot} + NO_3-N	Nutrification, acidification
COD	Consumption of oxygen in seas and lakes
Carbon dioxide	Greenhouse effect
Nitrogen oxides	Ground level ozone, acidification, nutrification
Sulphur dioxide	Acidification
HFC	Greenhouse effect
HCFC	Greenhouse effect, Decomposition of ozone layer

9. OTHER INFORMATION

Characterization factors according to SS-EN15804. Calculated according to the standard SS-EN 15978. TYPE II - ISO 14025

Charcterization factors:			
	GWP	(Global Warming Potential [CO_2-equivalent])	545,26
	AP	(Acidification Potential [H^+/g])	0,12
	POCP	(Photochemical Ozone Creation Potential [ethene-equivalent])	0,019
	NP	(Nutrification Potential [g O_2/g])	35,42
	HT	(Human Toxicity potential)	4,35