



EPD – data for en typisk råvare:

Miljøvaredeklaration for en typisk råvare fra Gantech' lager.

Råvare anskues i denne sammenhæng i tre forskellige kategorier:

Generelle EPD-data: Kat. 1:
Konstruktionsstål (S235 – S355 etc.)

Varmvalset stål (S235, S355 etc.) "grundlag: TIBNOR - Hot rolled Strip"					
TABLE 2A. POTENTIAL ENVIRONMENTAL IMPACT PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Global warming potential (GWP)	kg CO2 equiv	2,26E+03	2,40E+00	6,82E-01	-1,30E+03
Eutrophication potential (EP)	kg (PO43- equiv.	4,67E-01	4,05E-03	4,92E-04	-1,75E-01
Acidification potential (AP)	kg SO2 equiv.	4,24E+00	1,68E-02	4,37E-03	2,52E+00
Photo-oxidant formation potential (POCP)	kg ethene equiv.	4,26E-01	1,86E-03	3,29E-04	6,09E-01
Ozone Layer Depletion Potential (ODP)	kg CFC11 equiv	7,78E-09	7,98E-15	3,75E-15	3,97E-12
Abiotic depletion potential: fossil (ADP-fossil)	MJ, net calorific value	2,43E+04	4,67E+01	9,67E+00	-1,22E+04
Abiotic depletion potential: elements(ADP-elements)	kg Sb equiv	-1,03E-03	2,73E-06	2,63E-07	2,20E-02
TABLE 2B. USE OF RESOURCES PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Renewable primary energy					
Used as energy carrier (PERE)	MJ, net calorific value	1,22E+03	3,48E+00	1,30E+00	9,09E+02
Used as raw materials (PERM)	MJ, net calorific value	9,15E+00	0,00E+00	0,00E+00	0,00E+00
Total (PERT)	MJ, net calorific value	2,51E+04	4,83E+01	9,96E+00	-1,17E+04
Non-renewable primary energy					
Used as energy carrier (PENRE)	MJ, net calorific value	2,51E+04	4,83E+01	9,96E+00	-1,17E+04
Used as raw materials (PENRM)	MJ, net calorific value	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total (PENRT)	MJ, net calorific value	2,51E+04	4,83E+01	9,96E+00	-1,17E+04
Secondary material (SM)	Kg.	5,16E+01	0,00E+00	0,00E+00	8,50E+02
Renewable secondary fuels (RSF)	MJ, net calorific value	7,52E-20	0,00E+00	0,00E+00	1,00E+00
Non-renewable secondary fuels (NRSF)	MJ, net calorific value	8,84E-19	0,00E+00	0,00E+00	0,00E+00
Net use of fresh water (FW)	M3	1,15E+01	1,36E-01	2,51E-03	2,41E+00
TABLE 2C. WASTE PRODUCTION PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Waste, hazardous	Kg	2,62E-03	1,26E-09	1,52E-10	-1,50E-06
Waste, non-hazardous	Kg	6,83E-02	1,30E-05	5,00E-02	1,40E-01
Waste, radioactive	Kg	2,81E-04	6,37E-07	1,13E-07	4,17E-01

Generelle EPD-data: Kat. 2:
Rustfast stål (AISI 304 – AISI 316 etc.)

Koldvalset rustfrit stål (AISI 304, AISI 316 etc.) "grundlag Outokumpu Cold Rolled Stainless Steel"					
TABLE 2A. POTENTIAL ENVIRONMENTAL IMPACT PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Global warming potential (GWP)	kg CO2 equiv	3,39E+03	2,48E+00	n/a	-1,53E+03
Eutrophication potential (EP)	kg (PO43- equiv.	1,16E+00	1,19E-03	n/a	-5,22E-01
Acidification potential (AP)	kg SO2 equiv.	1,66E+01	9,61E-03	n/a	-9,44E+00
Photo-oxidant formation potential (POCP)	kg ethene equiv.	1,11E+00	6,99E-04	n/a	-5,64E-01
Ozone Layer Depletion Potential (ODP)	kg CFC11 equiv	4,87E-09	7,00E-12	n/a	-1,16E+03
Abiotic depletion potential: fossil (ADP-fossil)	MJ, net calorific value	5,03E+04	2,87E+01	n/a	-1,80E+04
Abiotic depletion potential: elements(ADP-elements)	kg Sb equiv	1,89E-01	1,14E-06	n/a	-8,23E-02
TABLE 2B. USE OF RESOURCES PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Renewable primary energy					
Used as energy carrier	MJ, net calorific value	8,79E+03	1,20E+01	n/a	-2,87E+03
Used as raw materials	MJ, net calorific value	0,00E+00	0,00E+00	n/a	0,00E+00
Total	MJ, net calorific value	8,79E+03	1,20E+01	n/a	-2,87E+03
Non-renewable primary energy					
Used as energy carrier	MJ, net calorific value	5,59E+00	4,07E+01	n/a	-1,83E+04
Used as raw materials	MJ, net calorific value	0	0	n/a	0
Total	MJ, net calorific value	5,59E+00	4,07E+01	n/a	-1,83E+04
Secondary material	Kg.	6,52E+02	n/a	n/a	n/a
Renewable secondary fuels	MJ, net calorific value	0	0	n/a	0
Non-renewable secondary fuels	MJ, net calorific value	0	0	n/a	0
Net use of fresh water	M3	3,82E+01	1,65E-02	n/a	-2,10E+01
TABLE 2C. WASTE PRODUCTION PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Waste, hazardous	Kg	4,86E-02	3,28E-07		-1,89E-01
Waste, non-hazardous	Kg	3,41E+02	5,01E+01		1,99E+01
Waste, radioactive	Kg	2,31E+00	4,80E-03	0	-1,54E-01

Generelle EPD-data: Kat. 3:
Aluminium (AW 5457 etc.)

Aluminium (plade+stang) (AW 5754 H111) "grundlag: aluminium Speira-Karmoy.."					
TABLE 2A. POTENTIAL ENVIRONMENTAL IMPACT PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Global warming potential (GWP)	kg CO2 equiv	4,55E+03	2,47E+02	0,00E+00	5,36E+03
Eutrophication potential (EP)	kg (PO43- equiv.	1,42E+00	1,03E-01	0,00E+00	-1,87E+00
Acidification potential (AP)	kg SO2 equiv.	3,66E+01	8,03E-01	0,00E+00	-3,53E+01
Photo-oxidant formation potential (POCP)	kg ethene equiv.	1,56E+01	3,23E-01	0,00E+00	-1,68E+01
Ozone Layer Depletion Potential (ODP)	kg CFC11 equiv	3,76E-04	9,79E-06	0,00E+00	-3,92E-04
Abiotic depletion potential: fossil (ADP-fossil)	MJ, net calorific value	4,19E+04	1,45E+03	0,00E+00	-6,52E+04
Abiotic depletion potential: elements(ADP-elements)	kg Sb equiv	8,19E-03	7,35E-03	0,00E+00	1,75E-01
TABLE 2B. USE OF RESOURCES PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Renewable primary energy					
Used as energy carrier	MJ, net calorific value	4,21E+04	1,96E+02	0,00E+00	-2,34E+04
Used as raw materials	MJ, net calorific value	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total	MJ, net calorific value	4,21E+04	1,96E+02	0,00E+00	-2,34E+04
Non-renewable primary energy					
Used as energy carrier	MJ, net calorific value	4,19E+04	1,45E+03	0,00E+00	-6,52E+04
Used as raw materials	MJ, net calorific value	0	0	0,00E+00	0
Total	MJ, net calorific value	4,19E+04	1,45E+03	0,00E+00	-6,52E+04
Secondary material	Kg.	0,00E+00	0	0	0
Renewable secondary fuels	MJ, net calorific value	0	0	0	0
Non-renewable secondary fuels	MJ, net calorific value	0	0	0	0
Net use of fresh water	M3	2,51E+02	7,82E-01	n/a	-1,27E+04
TABLE 2C. WASTE PRODUCTION PER 1,000 KG					
Parameter	Unit	A1-A3	C3	C4	D
Waste, hazardous	Kg	2,07E+01	6,07E+00	0,00E+00	1,92E+00
Waste, non-hazardous	Kg	3,60E+03	1,36E+03	2,70E+01	-2,51E+03
Waste, radioactive	Kg	2,03E-01	4,29E-03	0	-2,69E-01