

Approved Environmental Profile

Characterised and Normalised Data for 1 tonne of:

CSMA GGBS (Ground Granulated Blastfurnace Slag) Unallocated

Start Date: **01/01/2004** End Date: **31/12/2004**

Source of Data: CSMA (Cementitious Slag Makers Association)

Geography: UK

Acidification

BRE Ecopoints Score

LCA Methodology: BRE Environmental Profiles Methodology 2008

Allocation: 100% to product
Date of Data Entry: 12/03/2007
Boundary: Cradle to Gate

Comments: The BRE methodology allocates the impacts of steel production to Blastfurnace Slag

according to the relative value of the product streams. This

Profile does not include these allocated impacts and only includes the

impacts associated with the processing

| Issue | Characterised Data | Unit |
|--|---|---|
| Climate Change | 76 | kg CO2 eq. (100yr) |
| Water Extraction | 0.52 | m³ |
| Mineral Resource Extraction | 0.029 | tonnes |
| Stratospheric Ozone Depletion | 0.000049 | kg CFC11 eq. |
| Human Toxicity | 16 | kg 1,4-DB eq. |
| Ecotoxicity to Freshwater | 1.6 | kg 1,4-DB eq. |
| Nuclear Waste (higher level) | 0.00000019 | m³ high level waste |
| Ecotoxicity to Land | 0.16 | kg 1,4-DB eq. |
| Waste Disposal | 1.8 | kg |
| Fossil Fuel Depletion | 1100 | MJ |
| Eutrophication | 0.034 | kg PO4 eq. |
| Photochemical Ozone Creation | 0.026 | kg ethene eq. |
| Acidification | 0.25 | kg SO2 eq. |
| | | |
| legue | Normalised Data | Wostern European Citizen's Impacts |
| Issue | Normalised Data | Western European Citizen's Impacts |
| Climate Change | 0.0062 | 12300 kg CO2 eq. (100yr) |
| Climate Change Water Extraction | 0.0062 0.0014 | 12300 kg CO2 eq. (100yr) 378 m³ |
| Climate Change Water Extraction Mineral Resource Extraction | 0.0062 0.0014 0.0012 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion | 0.0062 0.0014 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity | 0.0062 0.0014 0.0012 0.00023 0.00079 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater | 0.0062 0.0014 0.0012 0.00023 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater Nuclear Waste (higher level) | 0.0062 0.0014 0.0012 0.00023 0.00079 0.0012 0.0082 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. 2.37E-05 m³ high level waste |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater Nuclear Waste (higher level) Ecotoxicity to Land | 0.0062 0.0014 0.0012 0.00023 0.00079 0.0012 0.0082 0.0013 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. 2.37E-05 m³ high level waste 123 kg 1,4-DB eq. |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater Nuclear Waste (higher level) Ecotoxicity to Land Waste Disposal | 0.0062 0.0014 0.0012 0.00023 0.00079 0.0012 0.0082 0.0013 0.00049 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. 2.37E-05 m³ high level waste 123 kg 1,4-DB eq. 3750 kg |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater Nuclear Waste (higher level) Ecotoxicity to Land Waste Disposal Fossil Fuel Depletion | 0.0062 0.0014 0.0012 0.00023 0.00079 0.0012 0.0082 0.0013 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. 2.37E-05 m³ high level waste 123 kg 1,4-DB eq. 3750 kg 273 GJ |
| Climate Change Water Extraction Mineral Resource Extraction Stratospheric Ozone Depletion Human Toxicity Ecotoxicity to Freshwater Nuclear Waste (higher level) Ecotoxicity to Land Waste Disposal | 0.0062 0.0014 0.0012 0.00023 0.00079 0.0012 0.0082 0.0013 0.00049 | 12300 kg CO2 eq. (100yr) 378 m³ 24.4 tonnes 0.217 kg CFC11 eq. 19700 kg 1,4-DB eq. 1320 kg 1,4-DB eq. 2.37E-05 m³ high level waste 123 kg 1,4-DB eq. 3750 kg |

| 7659 | 27-Feb-12 | © BRE Global 2010 |
|------|-----------|-------------------|

0.0036

0.28

71.2 kg SO2 eq.

Ecopoints

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