

## Glass LCI Dataset

**Functional unit: 1000 kg molten amber glass**

<b>1 Material Inputs</b>		<b>Unit</b>
<b>Main material inputs</b>		
Dredged sand	1.11E+02	kg
Crushed Quartz	3.33E+02	kg
Limestone	1.19E+02	kg
Soda Ash	1.44E+02	kg
Syenite	3.00E+01	kg
Saltcake	5.00E+00	kg
Cullet	3.68E+02	kg
Selenium	7.03E+00	kg
Detergent	1.80E-01	kg
Carbocite	1.88E+00	kg
Melite 40 (Fe-Al-Silicate Slag)	7.00E+00	kg
<b>Land use</b>		
<b>Primary ancillary materials</b>		

<b>2 Energy</b>		<b>Unit</b>
Total	1.32E+04	MJ
Process - Nonelectric	1.05E+04	MJ
Process - Electric	1.92E+03	MJ
Transportation	7.48E+02	MJ
Feedstock	7.20E+01	MJ
Non-Fossil Energy	1.00E+03	MJ
Fossil Energy	1.22E+04	MJ
Coal	4.74E+02	MJ
Petroleum	2.10E+03	MJ
Natural gas	9.23E+03	MJ
Nuclear	3.64E+02	MJ
Feedstock	7.20E+01	MJ

<b>3 Water Use</b>		<b>Unit</b>
Total water	1.75E+02	L
Fuel related water	3.40E+01	L
Process related water	1.41E+02	L

<b>4 Emissions to Air</b>		<b>Unit</b>
Carbon dioxide	5.64E+02	kg
CO2 fossil fuel		
CO2 biomass		
Carbon monoxide	2.79E+02	kg
Sulphur oxides (reported as SO2)	4.58E+00	kg
Nitrogen oxides (reported as NO2)	3.21E+00	kg
Methane	1.14E+00	kg
Dust & particles (includes metals) (1)	1.17E+00	kg
Acid gases	7.22E-02	kg
NMHC (non-methane hydrocarbons)	2.41E-01	kg
VOC		
Hydrocarbons (unspecified)		
Nitrogen		
Other organic compounds		
Other		

<b>5 Emissions to Water</b>		<b>Unit</b>
Phosphates and ammonia	1.48E-03	kg
Oils and greases	4.53E-03	kg
Suspended solids	3.72E-02	kg
Other organics	1.27E-05	kg
Other		
Hydrocarbons		
Metals		
Heavy Metals	3.00E-01	kg
Acids		
BOD	7.96E-03	kg
COD	6.69E-02	kg
Salinity		
Dissolved solids	9.45E-01	kg

<b>6 Wastes</b>		<b>Unit</b>
Total waste	1.25E+02	kg
Process related wastes	1.24E+02	kg
Municipal wastes	5.60E-01	kg
Emissions to Land		
RCRA D		
RCRA C		
Emissions to Deepwell		
RCRA D		
RCRA C		

Footnotes

(1) Total of Particulate Matter and Lead.