

Glass LCI Dataset

Functional unit: 1000 kg molten flint glass

1 Material Inputs		Unit
Main material inputs		
Dredged sand	3.30E+01	kg
Crushed Quartz	5.69E+02	kg
Limestone	1.60E+02	kg
Soda Ash	1.95E+02	kg
Syenite	5.20E+01	kg
Saltcake	5.00E+00	kg
Cullet	1.43E+02	kg
Selenium	2.00E-02	kg
Detergent	5.00E-02	kg
Carbocite	2.80E-01	kg
Cobalt oxide	9.10E-06	kg
Land use		
Primary ancillary materials		

2 Energy		Unit
Total	1.42E+04	MJ
Process - Nonelectric	1.19E+04	MJ
Process - Electric	1.39E+03	MJ
Transportation	8.01E+02	MJ
Feedstock	1.70E+01	MJ
Non-Fossil Energy	6.67E+02	MJ
Fossil Energy	1.35E+04	MJ
Coal	3.81E+02	MJ
Petroleum	2.13E+03	MJ
Natural gas	1.07E+04	MJ
Nuclear	2.85E+02	MJ
Feedstock	1.70E+01	MJ

3 Water Use		Unit
Total water	7.73E+02	L
Fuel related water	2.90E+01	L
Process related water	7.44E+02	L

4 Emissions to Air		Unit
Carbon dioxide	6.30E+02	kg
CO2 fossil fuel		
CO2 biomass		
Carbon monoxide	2.56E+02	kg
Sulphur oxides (reported as SO2)	4.37E+00	kg
Nitrogen oxides (reported as NO2)	2.73E+00	kg
Methane	1.11E+00	kg
Dust & particles (includes metals) (1)	8.92E-01	kg
Acid gases	5.96E-02	kg
NMHC (non-methane hydrocarbons)	2.36E-01	kg
VOC		
Hydrocarbons (unspecified)		
Nitrogen		
Other organic compounds		
Other		

5 Emissions to Water		Unit
Phosphates and ammonia	1.49E-03	kg
Oils and greases	3.94E-03	kg
Suspended solids	3.26E-02	kg
Other organics	1.48E-05	kg
Other		
Hydrocarbons		
Metals		
Heavy Metals	3.25E-01	kg
Acids		
BOD	6.89E-03	kg
COD	5.80E-02	kg
Salinity		
Dissolved solids	8.23E-01	kg

6 Wastes		Unit
Total waste	6.47E+01	kg
Process related wastes	6.42E+01	kg
Municipal wastes	4.30E-01	kg
Emissions to Land		
RCRA D		
RCRA C		
Emissions to Deepwell		
RCRA D		
RCRA C		

Footnotes

(1) Total of Particulate Matter and Lead.