

11. 벤토나이트

(1) bentonite, at processing

Reference function	information
Name	bentonite, at processing
Unit	kg
Category	construction materials
Subcategory	additives
Amount	1
Include processes	"bentonite, at processing" is a virtual product, put together from the production processes of alkaline activated bentonite (38%), acid activated bentonite (61%) and catalytic converter (1%). The production process of acid activated bentonite includes the raw materials, milling, activation, filtration/washing, milling, drying and storage. The production process of alkaline activated bentonite includes the raw materials, mixing, activation, grinding-drying, mixing/milling/granulation and storage. The total production amount for all products for 1997 is 316'000t and for 1999 is 345'743t.
General comment	The emissions to water are direct emissions as they are released into the river after treatment. Emissions to air are from processes. The emissions from combustion of fuels are imported via the requirements of fossil energy.
Infrastructure included	Yes
Dataset relates to product	Yes
Geography	For the exchanges, RER, UCTE, GLO and CH modules have been used as proxy. For Isopropanol the proxy "NMVOC to water" is used. The salt in the waste water is assumed to be made of 50% sodium chloride and 50% sodium sulphate. Sodium chloride is divided into "sodium ion" and "chloride ion" and sodium sulphate into "sodium ion" and "sulphate ion". For unspecified metals to water, aluminium is used as proxy
Technology	Mix of different production processes for different products in one German plant: 61% acid activated bentonite, 38% alkaline activated bentonite and 1% catalytic converter
Start year	1997
End year	2000