



Charge DES0129176

Product description

Natural montmorillonite bentonite

PRIMARY MINERAL

Montmorillonite > 95 %

CHEMICAL COMPOSITION

SiO ₂	64,48 %
CaO	2,48 %
P ₂ O ₅	0,14 %
SO ₃	0,12 %
Al ₂ O ₃	18,02 %
Na ₂ O	3,27 %
MnO	0,02 %
MgO	6,69 %
TiO ₂	0,31 %
SrO	0,07 %
Cl	0,06 %
Fe ₂ O ₃	3,86 %
K ₂ O	0,43 %
ZrO	0,03 %
Nb ₂ O ₃	0,01 %

SPECIFIC ACTIVITIES OF NATURAL RADIONUCLIDES

Iod-131	< 3 Bq/kg
Cäsium-134	< 3 Bq/kg
Cäsium-137	< 3 Bq/kg

SOLUBILITY

Bentonite is virtually insoluble in water and aqueous suspensions. In the presence of a small amount of water, the bentonite swells up and forms a pliable mass.

TYPICAL PROPERTIES

Colour	white-grey
Form	very fine, homogenous powder
Water content	8 – 10 %
Melting point/ melting range	> 450 °C, EU A.1
Loss on ignition	approx. 5 %
Density	2,6 g/ cm ³
Swollen volume	approx. 33 ml
pH value (KCL)	10
Larger particles	wet sieving with a 75µm sieve < 0,1 g = 0,5 %
Granulation	16,10 µm
Heavy metals	< 50 ppm
Loss on drying	5,4 %
Sedimentation volume	protrusion < 2 ml
Potential Cation Exchange Capacity CEC	33 mmol*z/100g
Microbiological contamination	TAMC: 8 x 10 ² KBE/g TYMC: 5 KBE/g
Binding capacity to histamine	84 %

Our bentonite is a natural clay of pharmaceutical quality, and is mined in Europe. It is an ultra-fine ground, sand-free calcium-sodium bentonite with a large proportion of montmorillonite.

Our bentonite complies with the guidelines of the European Pharmacopoeia and the British Pharmacopoeia, monograph "Bentonite".

This information is taken from the data and laboratory analyses made available to us by the manufacturer/ supplier. It complies with our current knowledge and experience and represents average values. As we have no influence on the processing and usage of our products, the user must take personal responsibility for the suitability of the product. Existing rights, regulations and laws must be observed.

As of 06/2017