

CLAY DATA SHEET:

GREEN CLAY

Green illite clay is extracted from a protected quarry before being transported to the Lizy sur Ourcq site and dried in the sun. It is then stored in an enclosed warehouse before being ground more or less finely... It is packaged under these different granulometries and marketed. Sub-contracting laboratories that we supply also use this clay to manufacture toothpaste, shampoo, bars of soap, etc.

Our commitment: A "Quality Nature" charter

- 100 % sun-dried clay,
- Not ionized clay,
- Clay without preservatives,
- Finished products are not tested on animals but on willing people,
(+ **alternative methods**),
- Raw material originating exclusively from the mineral kingdom,
- Clays are regularly inspected and analysed in COFRAC-accredited laboratories.

1 Qualitative composition

INCI name: ILLITE
CAS No. 12173-60-3

Green clay with a phylitic structure (clay fraction 60% a 80%), it is one of the main minerals in the clay group. It is almost ubiquitous in clay formations. It is found in finely lamellar masses, smooth to greasy to the touch and generally mixed with kaolinite and other minerals.

Formula: $(x \cdot y \cdot z \cdot w)Al_2(Si_3Al)O_{10}(OH)_2$

Illite: 65% to 75%

Kaolinite: 5% to 15%

Smectite: 5% to 10%

Allergens: absent

2. Quantitative composition:

Analysis of 25/09/08-ATD1004/ST/RI
Spectrometry of fluorescence X

Key elements (%)

Elements	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	TiO ₂	K ₂ O	P ₂ O ₅
	43.0	14.0	5.6	8.8	2.2	0.74	3.6	0,08
%	a	a	a	a	a	a	a	a
	50.0	17.0	6.2	9.4	2.4	0.80	4.1	0.11

3. Heavy Metals:

Usuals Results (depending batch numbers):

Plomb:	g à 26	ppm/ (mg/ kg)
Arsenic:	5 à 11	ppm/ (mg/ kg)
Mercure:	< LD: 0.05	ppm / (mg/ kg)
Cadmium:	0.15 à 0.60	ppm/ (mg/ kg)

4. Granulometric specifications and physical properties:

a) Granulometric specifications:

Green clay	Granulometry lower than ...
Crushed	25mm
Granulated	8mm
Fine powdered	3.15mm
Superfine	60µm
Ultra-ventilated	20µm

a) Physical properties:

Humidity rate: 5% to 6% in general but variable depending on climatic conditions.

(naturally dried in the sun)

Powder density: between 0.40 and 0.60.

Paste density: between 1.30 and 1.60.

5. Microbiological specifications:

- The microbiological thresholds retained are taken from the European Pharmacopoeia i^h edition 5.1.8 A 'Microbiological quality of herbal medicinal products for oral use' (the mineral thresholds not being established).
- According to the Pharmacopoeia, 'higher acceptance criteria can be applied on the basis of a risk assessment taking account of the qualitative and quantitative features of the bioburden and the intended use of the product': non-pathogenic telluric bacteria in topical use.
- The microbiological specifications taken into account are as follows:

Criteria	Values
Moulds and yeasts (TVMC)	5×10^5 CFU/g
Gilded Staphylococcus (<i>Staphylococcus aureus</i>)	None

Complementary control indicated in the Pharmacopoeia: Total viable aerobic microbial count: TAMC 10^7 CFU/g: irrelevant in mineral matter.

6. Restrictive uses:

Do not use green clay Gildewerk as a food supplement or as an ingredient in food supplements - European Regulations CE N° 629/2008 modifying the CE Regulation 1881/2006 enters current July 1st 2009.

Do not use green clay Gildewerk in the animal food: Regulation of January 12, 2001 as amended by regulation of August 17, 2003.

7. Lifespan:

The recommended life of green clay is 3 years.