

# Fine Quality Clays



Spa

Barth

Skin

Poultice

Edible

Compress

Facial

Healing Clay

AV Websites Marketing Group Presents: [GREENCLAYS.COM](http://GREENCLAYS.COM)

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## French Illite Clay – Certificate of Analysis

### GRANULOMETRY

%	10	25	50	75	90
Size $\mu\text{m}$ (in microns)	<16	<30	<47	<750	<1500

### MAJOR ELEMENTS

Analysis by ICP/AES or ICP/MS

Oxide	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	Na <sub>2</sub> O	K <sub>2</sub> O	TiO <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>
%	49.7	14.4	5.6	8.9	2.3	0.16	4	0.48	0.14

### MINOR ELEMENTS

Analysis by ICP/AES

Element	Cr	Li	Pb	Mn	Hg	Cd	As	Cu	Co	Ni	Mo	Se	Sr	Zn	Ag	B
In ppm	70	102	<10 >20	433	<2	10.6	1.3	18.5	16	46	<8	≤5	329	65	<2	50

### CATIONIC EXCHANGE CAPACITY

CEC meq g/100-g raw clay	47 to 52	49.5 + - 2.5
CEC meq g/100-g calcinated clay	55 to 61	58 + - 2.5

### EXCHANGEABLE CATIONS

Element	Ca	Mg	K	Na	Li
Meq/100g	8.72	6.37	1.73	0.26	0.028
Meq/100 g calcinated	10.2	7.44	2.02	0.30	0.032

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## ACIDO-BASIC PROPERTIES

pH at 1%	pH at 4%
7.8	8.1

## Microbiological Analysis : Methodology M-ANS

Bacteriae :	< 10 <sup>6</sup> ufc / g (normal < 10 <sup>7</sup> ufc / g)
Fungi and Mold :	< 10 <sup>3</sup> ufc / g (normal < 10 <sup>4</sup> ufc / g)
S. Aureus :	Absent (normal: Absent)
C. Albicans :	Absent (normal: Absent)
Pseudomonas :	Absent (normal: Absent)

## MINERALOGICAL ANALYSIS

Via DRX Siemens D 500 Anticathode Cu, filter Ni, 40 KV, 20mA, via reflexion

Principal Clay Minerals	Minerals in trace quantities	Free Quartz (semi quantitative estimate using the frigério method)
Kaolinite Illite Montmorillonite Interstratified I.S	Calcite 5-10 % Gypse >5 %	16 %