



TECHNICAL DATA SHEET

Beige light Montmorillonite Clay

Version 2021.1.5

Batch # 20191001

INCI Name : MONTMORILLONITE

CAS 1318-93-0

EINECS 215-288-5

Formula : (Na, Ca)O_{0,33} (Al, Mg)₂ Si₄ O₁₀ (OH)₂, nH₂O

| CHEMICAL ANALYSIS | PERCENTAGES |
|--------------------------------|-------------|
| SiO ₂ | 59.22 |
| AL ₂ O ₃ | 15.59 |
| Fe ₂ O ₃ | 5.31 |
| MgO | 3.04 |
| K ₂ O | 0.50 |
| Na ₂ O | 0.59 |
| TiO ₂ | 0.77 |
| CaO | 2.27 |
| MnO | 0.19 |
| P ₂ O ₅ | 0.12 |

| HEAVY METALS | MG/KG |
|--------------|-------|
| ARSENIC | 1.6 |
| LEAD | 11 |
| CADMIUM | 0.34 |
| MERCURY | 0.01 |

| BACTERIOLOGICAL ANALYSIS | QUANTITY PER G |
|--------------------------|----------------|
| Aerobies Mésophiles | < 1000 |
| Staphylococcus aureus | Absence |
| Pseudomonas aeruginosa | Absence |
| Candida Albicans | Absence |
| Escherichia coli | Absence |

Type of clay : Natural Silicate of aluminium and both, Iron and Magnesium
Major Constituent : Smectite (Montmorillonite) 70 to 75 %
Presentation (dry) : Beige light Clay Powder
Cation exchange Capacity (C.E.C) : > 42.6 Meq pour 100 g.
Loss of Ignition (1000°C) : 12.41 %.
Size : This clay come to powder < 40 µm.

It has to be noted that speaking of a raw mineral chemical analysis is not exactly the same on each part of the quarry without any change of the clay itself.

Clays are mainly characterised by X-ray diffraction and cation exchange capacity.

By this fact we only give an average value for each component.

ADVISORY

Our technicals informations are communicated at best by our knowledge.

They establish simple indications and present results of analyses (microbiology, heavy metals, etc.) which can be incomplete according to the use you have and cannot engage our responsibility, do not exempt you from the necessity of verifying yourself if the delivered products answer the standards, the obligations and the goal needed.

Our advices in materials of safety does not exempt you of determining yourself security measures adapted to the conditions appropriate to your exploitation which we cannot plan, and specially watch the technical qualification and the information of the people called to use, to treat or to be in touch with him.