

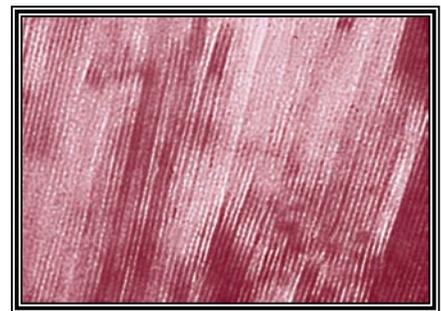


Montmorillonite clay is highly absorbent and non-flammable. It absorbs liquids, including most oils, water, mixtures of soluble oils and water, grease, gas, acids, inks and paints. Montmorillonite clay absorbents are 100% natural earthen products used to clean up spills and reduce hazards. Much like bentonite, montmorillonite is used in sealing dams; in bonding foundry sands, asbestos, and mineral wool; as drilling muds in Portland cements; and in concrete, ceramics, emulsions, insecticides, soaps, pharmaceuticals, and paints. Montmorillonite is also used in manufacturing paper; for clarifying water, juices, and liquors; and as a water softener to remove calcium from hard water. Montmorillonite removes color from minerals and vegetable oils and is used as a catalyst for absorbents in petroleum refining as well as automotive and industrial oil absorbents. Montmorillonite minerals are composed of hydrous aluminum silicates in the form of extremely small particles, which take up water between their layers, causing swelling and changes to the interlayer spacing according to the mineral variety. In addition to undergoing inorganic exchange reactions, they react with and absorb some organic liquids, such as amines, glycols, glycerol, and other polyhydric alcohols.

Mineralogically, clays are divided into three principal groups – kaolinite-serpentine, illite, and smectite. There are about 30 minerals included in the three clay groups. Montmorillonite clay is often referred to as fuller's earth, which is predominantly smectite (calcium montmorillonite), but typically includes some kaolinite and attapulgite. Fuller's earth, or natural bleaching clay, is a natural or untreated clay which, when used as a filter, effectively removes color and clarifies various mineral and organic oils. Deposits of montmorillonite clay are mined by The Moltan Company in western Tennessee.

Benefits of Montmorillonite Clay

- Highly absorbent minerals thoroughly absorb liquids from floor surfaces, removing oily sheens to leave a clean, non-slip, non-flammable surface.
- Heat resistance, non-flammability, low thermal conductivity, and a high fusion point make mineral absorbents ideal for use in high temperature areas or around machinery that produce sparks.
- Easy pour-on application makes clay absorbents ideal for leaks and drips in addition to spills around vehicles, machines, doorways and other hard-to-reach areas.
- Absorbent minerals are stable in most liquids and grasses in cool, dry and temperate climates.
- Heavy mineral construction makes montmorillonite superb for absorbing larger spills; a small amount can absorb a sizeable spill and will not blow away in windy conditions.
- Other uses for montmorillonite clay absorbents include creating emergency traction in snow or ice, controlling odors, and absorbing greasy residue and moisture inside garbage receptacles.



***Create a safer environment
with 100% natural mineral
Absorbent.***