



# CALIFORNIA EARTH MINERALS

## ION-MIN® Product Creation and Workflow



- The mineral-rich Colorado Rocky Mountains in our prehistoric past provided a complete source of macro, micro and trace elements to ION-MIN® and over time, erosion, rainfall, snowfall melt caused these super rich minerals to be deposited into the Colorado River.
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- Along the Colorado River, the minerals were carried from the many canyon streams that flowed into the river and the hydraulic forces made the extremely fine mixed particles of the natural ionic form of ION-MIN nutritional clays.
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- Seasonal snow melt and hard rainfalls caused the river to place overbank downstream deposits in the flat hot, dry arid regions of the Colorado River Basin. The water transported the ionized state mixed clay silicates which were deposited on the flat desert floor in the pocked topography of that region. (Image of the lower Colorado River Basin courtesy of NASA.)
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- The lower layers of the mineral deposit are extremely fine in particulate size and compacted into rock form. This deeper strata is protected from modern man made harmful pollutants, rainwater leaching and other surface contaminates. See the distinct layering in the clay wall revealed when the overburden is removed and the clay strata is reached during the mining process.
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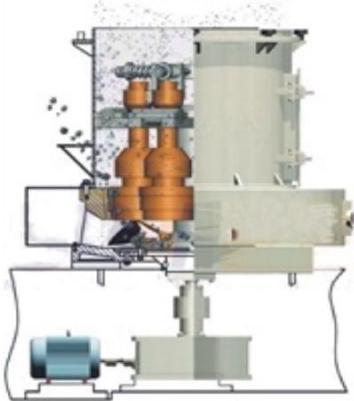
- The upper loose layer, (overburden) is carefully removed and the clay in its “rock” form is extracted from deeper levels using standard excavation equipment. The overburden is replaced to the mined area and the land is returned to original contours to its pre-operational condition.
- The calcium montmorillonite mineral clay is then transported to a processing facility for crushing, grinding, milling and bagging.



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### Vertical, Oscillating, Air-separator Raymond Mill:



- Raw material is crushed by jaw crusher to the size required, and then the crushed materials are elevated into a hopper from which the material is transported through the electro-magnetic vibrating feeder. It then is evenly and continuously fed into the grinding chamber for powder-processing. The rollers oscillate outward to press against the ring by centrifugal force and the shovel scoop returns the material to the middle between ring and roller to complete a fine grind.
- Afterwards, the material is carried by the air from the blower into the separator for screening. The fine powder is blown into the cyclone collector and is carried out through the output-powder valve as the final product. Coarser grained materials that do not make the grade are recycled back into the chamber for re-milling. The airflow system is sealed and circulated under alternating conditions of negative and positive pressure.



- The extremely fine particulate material is separated into various grades and placed in vapor-sealed containers for packaging.



- Terramin Tablets: Terramin powder is compressed into 1000 milligram tablets and a natural palm oil is used as a firming agent and glazing. The tablets are bottled in 250 and 500-count containers then labeled and sealed. ION-MIN® products used for dietary supplements are sub-branded with the name, Terramin®. ION-MIN® and Terramin® is the same product.
- Terramin Powder: Powder form of the product is packaged into food grade jars and resealable pouches available in 1,2,4 and 8 pounds sizes. They are then packaged in case quantities. Bulk sizes (20 lbs and 50 lbs) are placed in poly seal bags and boxed for shipment.



ION-MIN® is an antitoxin, antibacterial, healing clay in natural dry powder and tablet form. The powder mineral contains no additives of any kind. Clay products should always be stored in a dry area. There is no projected expiration date since it is already millions of years old. As with any powdered substance, avoid inhalation.



For more information about California Earth Minerals Corporation or our ION-MIN products, please contact us phone at 323-294-8500 or visit our websites:

[www.CaliforniaEarthMinerals.com](http://www.CaliforniaEarthMinerals.com) [www.Terramin.com](http://www.Terramin.com) [www.ION-MIN.com](http://www.ION-MIN.com)