

# Discover It



## In This Issue

- P.1 Kaolin
- P.2 Shade Advantage (WP)
- P.3 Educational Notes

## Kaolin – What is kaolin and why is it important?



## What are California's top 10 agricultural commodities?

### The top 10 commodities include:

milk and cream, almonds, grapes, cattle and calves, lettuce, strawberries, tomatoes, pistachios, walnuts, and oranges. Several of these commodities benefit from the application of Shade Advantage.

What is kaolin and why is it important? Kaolin is a white clay that has many unique properties and is used in a variety of industries, both nationally and internationally. Agriculture is one such industry that takes advantage of kaolin clay.

Similar to sunscreen we use on our skin to decrease the chance of sunburn, kaolin is a natural sun protectant that is used on a variety of crops to accomplish the same goal. Sun damage can lower crop yield, reduce the value of crops, or even make crops unmarketable.

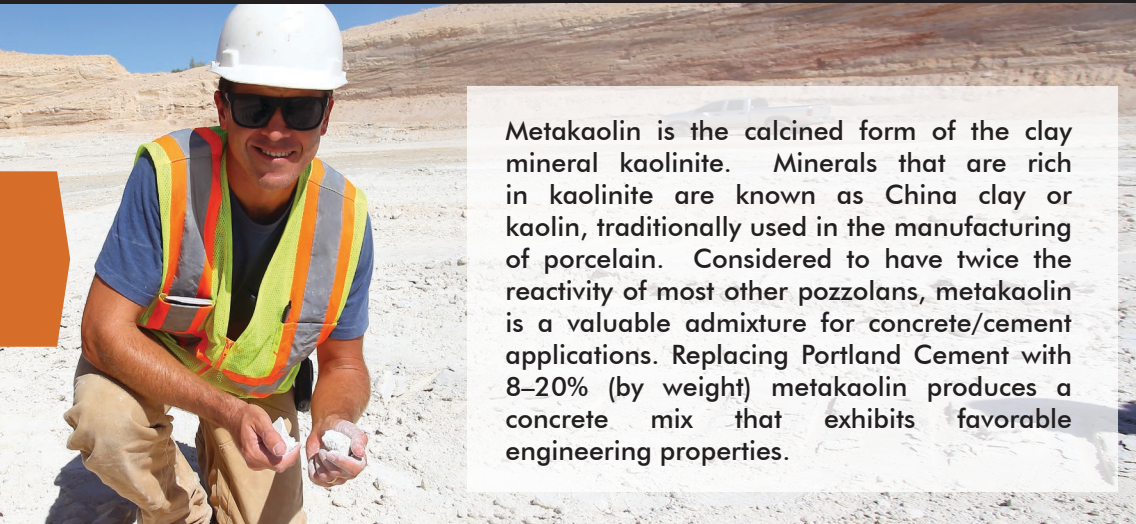
In the western United States, where sunshine and heat stress can be overwhelming during these summer months, using kaolin as a sun-protectant is a critical part of crop management. Farmers use kaolin on crops including walnuts, apples, grapes, melons, and other fruits and vegetables. These crops are worth billions of dollars in revenue each year, so it is vital that they are protected from heat stress and sun damage.

For decades, farmers in the west have relied upon kaolin deposits located thousands of miles away near the east coast. In fact, most of the kaolin clay in the United States is located in one state: Georgia. Historically, farmers who needed kaolin clay had to transport this clay from nearly 3000 miles away!

Shipping bulk clay from the east coast to the west coast not only contributes to more air pollution from trucks and trains that must transport this clay, but also results in higher material costs to farmers which results in potentially higher food costs. It is not uncommon for freight costs to be two to five times the cost of kaolin itself. Thankfully, Purebase has a solution to this logistical burden.

Purebase Corporation, located in Lone, California uses kaolin sourced from (you guessed it) Lone, California, which is near the heart of California's \$50 billion dollar per year agricultural valley. Without the burden of substantial transportation costs, ...

## What is Metakaolin?



Metakaolin is the calcined form of the clay mineral kaolinite. Minerals that are rich in kaolinite are known as China clay or kaolin, traditionally used in the manufacturing of porcelain. Considered to have twice the reactivity of most other pozzolans, metakaolin is a valuable admixture for concrete/cement applications. Replacing Portland Cement with 8–20% (by weight) metakaolin produces a concrete mix that exhibits favorable engineering properties.

# Check out our new bag...

## What's happening next month?

Look for our next issue to hear from Mr. Joseph Thomas, President of the Natural Pozzolan Association and learn what is the latest advancement in concrete mix designs.

**SHADE ADVANTAGE (WP) FOR ORGANIC AND CONVENTIONAL AGRICULTURE**  
Starting May 2020

(Kaolin from page 1)

Purebase can deliver a kaolin-based sun protectant at a much lower cost than its competitors that use east-coast-based kaolin.

Shade Advantage is Purebase's answer to the east-coast kaolin riddle. It is an approved organic product that helps protect farmers' crops, saves farmers money through reduced transportation costs, and benefits the environment by reducing the number of miles trucks and railroad cars must travel to arrive at west-coast based agricultural operations.

Purebase Corporation is delivering its premier sun protectant product Shade Advantage in all new packaging. The product itself is unchanged, a bright kaolin clay sourced from Amador County, California's unique kaolin deposit. But the packaging is entirely new and designed to represent Purebase's unwavering commitment to the agricultural industry.

"We want to make a statement with this bag that we are proud to support our agricultural partners (particularly in the west) with locally sourced kaolin from Amador County, California." stated Purebase CEO Scott Dockter. He added, "the demand for the product increases every year and we look forward to serving our friends in the farming community for decades to come."



# See it out on the market now!

# Did you know?

Pozzolan, a form of volcanic ash, was discovered by the Romans and used to help create the Pantheon in Rome. The Pantheon building is one of the greatest concrete achievements of all time and has remained intact since it was built between 113-125 AD. The magic ingredient holding this building together for nearly 2000 years is pozzolan!



## Home of Purebase Corporation

The City of Lone is located in Amador County. It is nestled in the beautiful oak covered foothills in the Gold Country. Residents and visitors to Lone enjoy the gentle climate, pastoral setting with oak trees and farmlands, and the family – oriented atmosphere. In 1840, the town site became part of the Mexican Land grant Rancho Arroyo Secco in Alta California. The town is believed to have been named by Thomas Brown around 1849 after the heroines in Edward Bulmer-Lytton's Drama The Last Days of Pompei. During the days of the Gold Rush, miners knew the town by names of "Bedbug" and "Freezeout". Unlike other communities in Amador County, which were founded on gold mining, Lone was a supply center, stage and rail stop, and agricultural hub. As you can see, we fit right at home with our community supporting the ag and industrial industries.

## Educational Note: Did you know?

Purebase's new acquisition in early April of Snow White Pozzolan Mine has marked our strategic entry into the SCM (supplementary cementitious material) marketplace. The primary application of pozzolan located at this plant is used as a supplementary cementitious material in concrete for construction of bridges, highways, buildings, dams, and other construction projects. The use of SCMs in concrete help to reduce harmful emissions generated during the production of cement can provide additional strength and reduces the alkali-silica reaction (ASR) making it very valuable in any construction project. We have been working with the mineral composition of this mine for several years to create new materials that we know will be in high demand as the availability of fly ash (a byproduct of coal burning plants) as an SCM continues to diminish." Mr. Scott Dockter, President /CEO further added, "Our deposit in Southern California makes us uniquely positioned to serve West Coast markets in the U.S."

## Editor Notes:

Dear Subscriber,  
Welcome to the 1st edition of Discover – a Purebase newsletter. We appreciate your taking the time to check this out. Our intention is to bring you monthly updates on not just our company but the people who make it all happen. We plan to include information on both our AG and SCM sectors, partner highlights, and new developments along with fun facts. What would you like to see in our newsletter? We are open to suggestions and feedback.

Please share with your colleagues and friends. The goal for Purebase Corporation is to maximize the Earth's resources for mankind in a sustainable way. Purebase Corporation operates as a diversified, natural, and industrial mineral resource company. The company focuses on purposing resources for specific industries. To find out more, please visit our website at <http://www.Purebase.com>.

Sincerely,  
Emily Tirapelle