

A REFLECTIVE PROCESSED KAOLIN PARTICLE FILM AFFECTS FRUIT

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[A Reflective Processed Kaolin Particle Film Affects Fruit](#)

The processed-kaolin particle film material was highly reflective to the ultraviolet wavelengths and this characteristic may be important in reducing solar injury to both fruit and leaves....

[A Reflective, Processed-Kaolin Particle Film Affects Fruit ...](#)

The purpose of these studies was to determine the effect of two reflective, processed-mineral particle film materials, based on processed kaolin and calcium carbonate, on whole plant carbon assimilation, water use efficiency, yield, fruit size and quality in 'Empire' apple over a 4-year period of time.

[Effects of kaolin particle film on olive fruit yield, oil ...](#)

Kaolin had no significant effect on yield and water use efficiency (WUE), however, it had negative effect on yield efficiency (YE). Kaolin treatments also significantly increased fruit and leaf TPC ($P < 0.01$) but had no effect on leaf and fruit total antioxidant activity (AA), as well as fruit anthocyanin content (AC) and soluble proteins (SP).

[Effect of Surround WP® a kaolin-based particle film on ...](#)

1. Introduction. Processed calcined kaolin particle films (PKPF) reduced insect, heat, photosynthetically active radiation (PAR) and ultraviolet radiation (UV) stress in plants due to the reflective nature of the particles (Glenn and Puterka, 2005). In addition PKPF increased the microbial biomass on the leaf surface (Glenn et al., 2015) and together the particles and microbial biomass may aid ...

[Physiological Effects of Kaolin Particle Film Technology ...](#)

Furthermore, kaolin has been found to positively affect fruit external and internal quality with various fruit species. We investigated the effect of kaolin particle film application on fresh and canned clingstone peach fruit quality and inorganic element composition. Kaolin was applied periodically from early July to early August 2010 on Andross peach trees. Fresh peach fruit treated with ...

[Effects of Kaolin Application on Light Absorption and ...](#)

Adolfo Rosati, Samuel G. Metcalf, Richard P. Buchner, Allan E. Fulton, Bruce D. Lampinen, Effects of Kaolin Application on Light Absorption and Distribution, Radiation Use Efficiency and Photosynthesis of Almond and Walnut Canopies, Annals of Botany, 10.1093/aob/mcl252, 99, 2, (255-263), (2006).

[Sprayable film | Good Fruit Grower](#)

(2003). Effects of Kaolin Clay Particle Film on Southern Highbush (*Vaccinium corymbosum*L.) Blueberry Plants. Small Fruits Review: Vol. 2, No. 4, pp. 29-36.

[\(PDF\) Particle film technology: An overview of history ...](#)

Effects of Kaolin-Based Particle Film Application on Boll Weevil (Coleoptera: Curculionidae) Injury to Cotton A. T. Showler USDA-ARS SARC, 2413 East Highway 83, Weslaco, TX 78596

[Kaolin spray - Wikipedia](#)

Particle films have been shown to reduce the light available to the leaf by increasing light reflection (Abou ... Schupp JR, Fallahi E, Chun IJ. 2002. Effect of particle film on fruit sunburn, maturity and quality of 'Fuji' and 'Honeycrisp' apples. HortTechnology 12: 87-90. Showler AT. 2002. Effects of kaolin-based particle film application on boll weevil (Coleoptera: Curculionidae) ...

[Kaolin Particle Film and Water Deficit Influence Malbec ...](#)

A reflective, processed-kaolin particle film affects fruit temperature, radiation reflection, and solar injury in apple.

[RESPONS KEITT MANGGA BUAH TERHADAP PENGGUNAAN SUN-BLOK ...](#)

effects of a kaolin-based particle film (Surround WP, Engelhard Corp.) on gas exchange, nut quality, casebearer density and population of natural enemies (insects and arachnids) on pecan (*Carya illinoensis* Pawnee) trees. Film application was repeated for seven (2002) or nine (2003) times during the growing season. In both years, treated trees showed lower leaf temperature (up to 4°C) than ...

[USDA ARS Online Magazine Vol. 48, No. 11](#)

Kim, S.-H. and D.M. Glenn. Modeling the effects of processed-kaolin particle films on gas-exchange of fruit tree leaves (Abstract). The 37th Biological Systems Simulation Conference, 17-19 April 2007, Beltsville, Maryland, USA

[- oekologischerlandbau.julius-kuehn.de](#)

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[KAOLIN PARTICLE CLAY FILM EFFECTS ON PHYSIOLOGY, QUALITY ...](#)

Recently, a new approach to fruit pest management has arisen in the form of processed-kaolin particle film technology (product name Surround® WP). The white kaolin particle film repels insects without killing them. Therefore, side effects on beneficial arthropods are expected to be low. This new approach triggered the present study to control *C. pyri*. In spring 2003 a small-plot field trial ...

[Kaolin – Wikipedia](#)

fruit abortion. A kaolin-based particle film, originally developed to protect fruit trees from insects, has been found to reduce temperatures in tissues of plants. A kaolin-based particle film was tested to determine if it could be used to improve yields of pepper in Oklahoma and Georgia. In Oklahoma, seedlings of a bell pepper, Jupiter, and a nonpungent jalapeno, Pace 103, were transplanted ...

[Effects of a Kaolin-Based Particle Film on Obliquebanded ...](#)

Schon, M. K. 1993. Effects of foliar antitranspirant or calcium nitrate applications on yield and blossom-end rot occurrence in greenhouse-grown peppers. J. Plant Nutrit. 16:1137-1149. Showler, A. T. 2002. Effects of kaolin-based particle film application on boll weevil (Coleoptera: Curculionidae) injury to cotton. J. Econ. Entomol. 95:754-762.

[PARTICLE FILMS M](#)

A chemically inert, reflective kaolin-based particle film (Surround WP, Engelhard Corp., Iselin, N.J.) has been developed in recent years as a physical barrier to repel insects, prevent disease spread and reduce the incidence of fruit sunburn on apple trees.

[Effects of kaolin particle film on beet armyworm ...](#)

The particle film technology based on processed kaolin sprays has been recently introduced for the control of the olive fruit fly *Bactrocera oleae* (Rossi), the key pest of olive groves. A 3-year field experiment was conducted from 2005 to 2007 at Villarejo de Salvanes, Spain to assess the efficacy of a kaolin-based product (Surround WP) for controlling *B. oleae* and two other olive insect ...

[Factors Affecting Appearance of Stink Bug \(Hemiptera ...](#)

Studies were conducted from 1997 to 1999 to evaluate the effect of processed kaolin-based particle film applications on the ... In addition, there was an increase in pear fruit yield that was thought to result from the reflective nature of the particles that reduced plant temperature (4,5). Potassium silica application was effective in controlling powdery mildew due, in part, to mechanical ...

[Kaolin Wet-Processing - Helals](#)

Some grades have fine particle size, high adsorption, and suspension properties . Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 15th Edition. John Wiley & Sons, Inc. New York, NY 2007. , p. 477 . Hazardous Substances Data Bank (HSDB) Grindability good if active ingredient is high mp solid: oil adsorption 30-35 g/100 g oil; bulk density, 20-40 lb/cu foot; and pH, 5-6. Lewis, R.J. Sr ...

[Effects of Kaolin-Based Particle Film Application on Boll ...](#)

EFFECTS OF KAOLIN CLAY PARTICLE FILM ON LEAF TEMPERATURE, NUT TEMPERATURE AND SUNBURN ... Kaolin clay particle film was sprayed on Chandler, Howard, Tulare and Vina walnuts. Trees were planted in 1999 at a spacing of 22' by 22'. Applications were made on June 14, June 20, and July 26 at the rate of 50 lbs./200gpa with a Nelson Hardee 6800E spray rig driven at 2.5 mph.. Nut and leaf ...

[Water stress and kaolin spray affect herbivorous insects ...](#)

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????? ...

[Answer Key To The Wisconsin Trapper Education Classes](#)

Three concentrations (0%, 3% and 6%) of processed Kaolin particle film sprayed on four varieties (Ohadi, Sepid, Kaleghoochi and Akbari) of pistachio as a liquid suspension, which evaporates, leaving white colour powdery film on the surfaces of leaves, stems and fruits. Treatments arranged in a randomized block design with 3 replications. Imaging softwares used to extract canopy structure and ...

[Kaolin Particle Film and Water Deficit Influence Malbec ...](#)

In the orchards of ARS' Appalachian Fruit Research Station in Kearneysville, West Virginia, the severe drought of 1999 revealed another advantage of covering apple and pear trees with a white, reflective film of specially processed kaolin, a type of clay. Empire apples harvested from treated trees were an average of 17 percent larger than fruit from trees left naked to withstand the heat--even ...

[Repellency of a Kaolin Particle Film Surround and a ...](#)

kaolin clay, is a fine powder that is mainly composed of kaolinite. For insect control, kaolin clay is sprayed onto trees as a water suspension. After drying, the kaolin forms a white and thin (usually < 3 µm) particle film on the surfaces of leaves and fruits. This film does not re-duce photosynthesis and plant growth but does reduce

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