## New Material Created From Clay

Under the ultra microscope, each particle lined up to touch the end of another particle. They acted like compass needles. Electrical forces held the ends together, and in this way threads

ter and food, because it is tasteless. As a lining it is suggested for the interior of beer cans, and for any utensil containing corrosive chemicals.

For Permanent Records.

The films promise to be useful for making permanent written or printed documents. They can be made of any thickness, a fact which permits them to be molded while moist.

The film has been patented and the rights assigned to the Research Corporation of New York city, a nonprofit scientific organization.

## Utilizing Volcanic Ash

3-24-40 Demorat \*

Arkansas Has Deposits of "Bentonite"-A Clay With Many Uses

By ADOLPH O. GOLDSMITH.

other minerals, the clay is almost pure white and banks of it have the ends together, and in this way threads grew in every direction.

It was discovered that by heating the clay films to nearly 1,000 degrees Fahrenheit and subjecting them to pressures around 1,000 pounds a square inch, they could be made as flexible as paper, and stronger. They could be transparent, or opaque.

Resembles Mica.

X-rays and infra-red spectroscopy showed that the films have practically the same structure as mica, and that apparently substitute for it.

The new material can be turned out in any sizes, at low manufacturing costs. It does not scale like mica. It has been named alsifilm, from aluminum and silicon, the chemical elements forming mica.

Electrical tests indicate it may be an ideal wrapping for cables and wires. It is also a good wrapper for oil, butter and food, because it is tasteless. As a lining it is suggested for the interior

allowing the steam to escape more rapidly and preventing holes and air bubbles in the castings.

Another large use for bentonite is in thickening drilling mud in sinking oil wells so it will suspend rock cuttings and carry mud-weighted materials, and also to seal the walls of the oil wells against water filtration.

So effective is bentonite in stopping water seepage because of its great expanding qualities that a thin coat on the outside of basement walls and floors stoos the percola-tion of water through the concrete.

Many, Many Uses.

Bentonite is used as a bonding agent in making many clay tiles and ceramics of all kinds; it is used as a cleaning agent in laundries and in heat- and sound-insulating boards, plastics and cements. It is used in horticultural sprays and insecticides as a suspending, spreading and adhesive agent, and also for purifying turbid waters and sewage.

Mixed with concrete, bentonite Many, Many Uses.



## BENTONITE CLAY

Engineer and Crew Reported

Prospecting for Bentonite clay, valuable in modern oil refining, is being carried on extensively in Saline and crew representing the Attapulgus Clay Company, it was reported here yester-

The Attapulgus company is said to be an affiliate of the Standard Oil Company of New Jersey and the Atlantic Refining Company. Reports indicate that the survey will include holdings of the Long-Bell Lumber Company and other lands in Grant. Saline and Hot Spring counties, and possibly will extend to other areas.

Dr. George C. Branner, state geologist, said yesterday that a small de-posit of Bentonite was discovered in eastern Saline county, not far from the Pulaski county line, several years ago, and that a few additional finds have been reported since.

He said he had suggested to interests hopeful of commercial production of Bentonite that a minute investi-gation be made to determine location of the deposits. This clay is sacked