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## Electrical Properties of Corn-Stalk Products

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Ice packed around and above the cylinder prevents the flow of heat into the cylinder from the sides and top and also furnishes a good guard ring at the bottom of the container.

IOWA STATE COLLEGE,  
AMES, IOWA.

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## ELECTRICAL PROPERTIES OF CORN-STALK PRODUCTS

A. A. AARDAL

The Chemical Engineering Department of Iowa State College is doing extensive research work in the utilization of waste products and especially of products made up from corn-stalk. One of these products is maizolith, which resembles hard rubber in many respects.

This investigation deals particularly with the following electrical properties of maizolith; di-electric constant, power factor, specific resistivity and surface resistivity.

IOWA STATE COLLEGE,  
AMES, IOWA.

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## THE CONDUCTIVITY OF COD LIVER OIL

L. W. BUTLER

Experiments have been conducted on the conductivity of cod liver oil under different conditions. These experiments were carried out in a conductivity cell using brass plates placed in some instances about .003 inch apart and at other times at about .020 inch. The temperature of the oil was raised to approximately fifty degrees Centigrade and allowed to cool slowly to three or four degrees below zero Centigrade, readings on the conductivity being made at frequent intervals. The conductivity decreased as the temperature was lowered, the decrease becoming very rapid at the lower temperatures. When the temperature was raised, the conductivity increased, the conductivity-temperature curves being approximately the same in the two cases.

The general shape of all the conductivity-temperature curves obtained with samples of different oils or with samples of the same oil under varying circumstances were the same but the values of the conductivities varied widely. If the oil was left exposed to the