

Effect of Metal Ions on Electrical Insulation Paper Properties

Vikram Singh, Dharm Dutt, Swarnima and Dinesh Tahiliyani

ABSTRACT

Paper made from pure cellulose permits transmission of larger power loads through given size of ducts in cables compared to other insulations. Based on use, the electrical insulation paper may be categorized as high-tension cable paper, telephone cable paper, and capacitor tissue paper. These papers have distinct levels of metal ion purity in pulp depending on end use. Present paper aims at studying the effect of thickness of paper and metal ion concentration on electrical properties of paper. This study will help for developing various insulation papers.

Key words- Insulation paper, Metal ions, Conductivity, Break down voltage, Physical strength properties