
ACTIVITIES OF THE TECHNICAL COMMITTEE ON DEI IN IEEJ

Digest Reports of Investigation Committees in DEI

Digest Reports on activities of investigation committee in the technical committee on DEI are reproduced here from the Proceedings of the International Symposium on Electrical Insulation Materials (Sept. 1998 Toyohashi Japan)

High Temperature Insulation

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The committee was set in January 1996 with 30 members in order to survey technical information concerning high temperature insulations and their applications.

(1) Purpose of establishment

Many power equipments and cables have been compacted and applied to severer environmental use and therefore the design stress for the insulating materials increased not only in electrical stress but also in thermal stress. High temperature insulating (HTI) materials could be one of the solutions for the requirements for insulation in severer use. This committee aims to survey the modern high temperature insulating materials and their applications.

(2) Investigation Items

The committee member determined the investigation items as follows;

1) Classes and kinds of high temperature insulating materials

2) Electrical properties of HTI

3) Physical and chemical properties of HTI

4) Applications of HTI

5) Test methods of HTI performance

6) Future trends of HTI

(3) Activity

Since the establishment of the committee, fifteen regular meetings and several secretary meetings have been held. About 300 papers were presented and discussed in the committee. In January of 1997 and 1998, research meetings on high temperature insulation were held in Toyohashi and in Tokyo sponsored by the committee. The activity are now in the final stage where selected papers have been reviewed and discussed to be a Technical Report of IEEJ.

Deterioration Insulation Materials and Standardization of Diagnosis for Apparatus

T. Hayami (Musashi Institute of Technology)

T. Ito (Musashi Institute of Technology)

K. Umemoto (Toshiba Co. Ltd.)

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The committee started its three-year term activity in January 1996. It has already 2.5 years of activity passed to date. The committee consists of 34 members from universities, research institutes, power electric companies and power apparatus manufacturers.