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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11021-2014

Replacing GB/T 11021-2007

Electrical insulation -- Thermal evaluation and designation

电气绝缘 耐热性和表示方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 11021-2007 "electrically insulating heat resistant grade." This standard compared with GB/T 11021-2007, Lord to change the following.

- Standard name changed to "heat resistance and electrical insulation representation";
- Remove the "simple combination of electrical insulating materials," "relative thermal index RTE" and "relative thermal index ATE", etc. 3 the term;
- Increased "EIM estimate heat index" "EIM relative heat index" "EIS estimate heat index" and "EIS refers to the relative heat Number "and four terms;
- Adjusted Chapter 4 Content;
- Amend Chapter 5 of the heat rating of representation.

This standard uses the translation method identical with IEC 60085:2007 "heat resistance and electrical insulation representation." Correspondence between the consistency of the standards of international documents and normative references of the following documents.

- GB/T 11026.1-2003 Electrical insulating materials - Thermal resistance - Part 1. Evaluation of aging procedures and test results (IEC 60216-1:2001, IDT);
- GB/T 11026.7-2014 heat resistance, electrical insulating materials - Part 7. determine the relative thermal index of insulation material (RTE) (IEC 60216-5:2008, IDT);
- GB/T 20111 (all parts) Procedures for thermal evaluation of electrical insulation [IEC 61857 (all parts), IDT];
- GB/T 20112-2006 Evaluation of electrical insulation and differential (IEC 60505:1999, IDT);
- GB T 20139-2006 Electric heat insulation levels have been identified scattered around the winding insulation structure adjustment component /Evaluation Method (IEC 61858:1999, IDT).

The standard proposed by China Electrical Equipment Industrial Association.

This standard by the National Electrical insulation materials and insulation systems assessment Standardization Technical Committee (SAC/TC301) centralized.

This standard is mainly drafted by. Guilin Electric Apparatus Research Institute Co., Ltd., Shenzhen Institute of Standards and Technology, Beijing Electrical Machinery Industry Technology and Economy Institute, Xiangtan Electric Company.

1 Scope

This standard specifies the electrical insulating materials (EIM) and electrical insulation systems (EIS) of heat-resistant grade, assessment and evaluation procedures.

This standard applies to thermal aging factor as the main factor of electrical insulating materials (EIM) and electrical insulation systems (EIS) heat resistance.

NOTE: EIM heat level can not be directly related to the EIS as heat levels.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

IEC 60216-1 Electrical insulating materials - Part 1 Heat resistance. The aging procedures and evaluation of test results (Electrical insulating materials-Properties of thermal endurance-Part 1. Ageing procedures and evaluation of test results) IEC 60216-5 Electrical insulating materials - Thermal resistance - Part 5. determine the relative thermal index of insulation material (RTE) [Electrical insulating materials-Thermal endurance properties-Part 5. Determination of relative thermal endurance index (RTE) of an insulating material] Evaluation and Verification of IEC 60505 electrical insulation systems (Evaluation and qualification of electrical insulation systems) IEC 61857 (all parts), electrical insulation system thermal assessment procedures (Electrical insulation systems Procedures for thermal evaluation) IEC 61858 Electrical insulation systems have been identified scattered around the level of thermal insulation winding Assessment Method component adjustment (Electrical insulation systems-Thermal evaluation of modifications to an established wire-wound EIS)

3 Terms and Definitions

IEC 60505 define the following terms and definitions apply to this document.

Electrical insulating materials electrical insulating material; EIM Solid and liquid material, or

simply a combination of having a negligible or low conductivity of these materials used to isolate electrical equipment in A conductive member different potentials.

Note 1: for example, one made of paper laminated polyethylene, terephthalate film flexible material consisting of, in a sense constitute a "simple combination."

Note 2: From the perspective of the test, the electrode material may be added to the sample, unless this combination constitutes a form of EIS (Electrical insulation systems) that test.

Electrical insulation systems electricalinsulationsystem; EIS from one or more electrically insulating material (EIM) in combination with the conductive member in electrical products used as insulation structure.

Be evaluated EIM candidateEIM it requested an evaluation of the heat resistance of the material.