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

GB/T 15022.2-2017

Replacing GB/T 15022.2-2007

**Resin based reactive compounds used for electrical insulation
-- Part 2: Methods of test**

电气绝缘用树脂基活性复合物 第2部分：试验方法

(English Translation)

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Foreword

GB/T 15022 "electrically insulating resin-based active composite" is divided into the following sections.

- Part 1. Definition and general requirements;
- Part 2. Test methods;
- Part 3. No filler epoxy resin compound;
- Part 4. Unsaturated polyester-based impregnating resin;
- Part 5. Quartz filler epoxy resin composite;
- Part 6. Nuclear Power Plant 1E level distribution transformer insulation with epoxy resin;
- Part 7. Epoxy anhydride vacuum pressure impregnation (VPI) resin;
- Part 8. Epoxy modified unsaturated polyester vacuum pressure impregnation (VPI) resin;

This section GB/T 15022 Part 2.

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

This Part Replaces GB/T 15022.2-2007 "Electrical insulating resin-based active compounds Part 2. Test methods." This section Compared with GB/T 15022.2-2007 compared to the main technical changes are as follows.

- The "normative references" in the ISO , IEC standards to the corresponding national standards, and an increase of GB/T 21298-2007 and other national standards (see Chapter 2, 2007 edition Chapter 2);
- The sample preparation and sample preparation should be changed to the relevant national standards (see Chapter 3, 2007 edition Chapter 3);
- In the "test method of resin-based active compounds before curing" added the "appearance" pilot project, delete the "softening temperature", "chlorine Content "two pilot projects (see Chapter 4, Chapter 4 of the 2007 edition);
- In the "cured resin-based active composite test method" adds "thermal conductivity",

"linear expansion coefficient" and "temperature change test Experience "three pilot projects (see Chapter 5, 2007 edition of Chapter 5).

This section uses the redrafted law reference IEC 60455-2:2015 "electrically insulating resin-based active compound Part 2. Test side Law ", the degree of consistency with IEC 60455-2:2015 is not equivalent.

This part is proposed by China Electrical Equipment Industry Association.

This part of the National Standardization Technical Committee insulation materials (SAC/TC51) centralized.

This section is drafted unit. Zhejiang Rongtai Technology Enterprises Ltd., Guilin Electric Institute of Science and Technology Co., Ltd., Sichuan East Technology Group Co., Ltd., Suzhou Taihu Electrical New Material Co., Ltd., Suzhou Jufeng Electrical Insulation System Co., Ltd., Xi'an West Electric Materials Co., Ltd., Shanghai Tongli Electrotechnical Materials Co., Ltd.

1 Scope

GB/T 15022 provisions of this part of the test method for electrically insulating resin-based active compounds.

This section applies to electrical insulation resin-based active composite performance test.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

Rubber, vulcanized or thermoplastic - Determination of tensile stress - strain properties GB/T 606 chemical reagent moisture determination Karl Fischer method GB/T 1033.1-2008 Plastics - Determination of density of non-foamed plastics - Part 1. Immersion method, liquid pycnometer method and titration method GB/T 1034 Determination of plastic water absorption GB/T 1036 Plastics - Determination of linear expansion coefficient at -30 °C ~ 30 °C Quartz dilatometer method GB/T 1408.1 Insulating material Electrical strength test methods Part 1 GB/T 1409 measurement of electrical insulation materials in the power frequency, audio, high frequency (including the wavelength of rice wave) under the dielectric constant and dielectric loss factor the recommended method GB/T 1410 solid insulating materials volume resistivity and surface resistivity test methods GB/T 1634.1 Plastics - Determination of load deflection temperature - Part 1. General test methods GB/T 1634.2 Determination of plastic deformation temperature of the load Part 2. Plastic, hard rubber and long fiber-reinforced composite materials GB/T 1723 Determination of paint viscosity Paints for electrical insulation - Part 2. Test methods GB/T 2411 Plastics and hard

rubbers Determination of indentation hardness (Shore hardness) using a durometer GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods Test J and guidance Mildew GB/T 2423.22 Environmental testing Part 2. Test methods Test N. Temperature changes Test method for resin castables performance GB/T 2567-2008 Plastics - Determination of partial acid number and total acid number of polyester resins GB/T 3186 Paints, varnishes and varnish and varnish raw materials sampling GB/T 3536 Petroleum products - Determination of flash point and ignition point Cleveland open cup method GB/T 4207 solid insulation materials, tracking resistance index and compared to the determination of tracking index Epoxy equivalent of GB/T 4612 Plastics epoxy compounds Determination of GB/T 5208 rapid flash point closed cup method GB/T 6750 Paints and varnishes - Determination of density - Pyknometer method GB/T 6753.4 Paints and varnishes - Flow-out cups for efflux time determination Test method for unsaturated polyester resin Plastics - Determination of ash - Part 1. General methods GB/T 10582 Determination of electrical insulation materials - Electrolytic corrosion caused by test methods