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

GB/T 15022.6-2014

**Resin based reactive compounds used for electrical insulation-Part 6:
Epoxy casting resinous compounds use for class 1E distribution
transformer in nuclear power generating stations**

**电气绝缘用树脂基活性复合物 第6部分：核电站1E级配电变压器绝缘用环氧浇注
树脂**

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Standardization Administration of China**

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- 5 Bending strength MPa ≥ 130
- 6 Impact Strength (simply supported beam, unnotched) kJ/m² ≥ 12

Foreword

GB/T 15022 "for electrical insulation resin based reactive compounds" consists of the following components.

- Part 1. Definitions and general requirements;
- Part 2. Test methods;
- Part 3. unfilled epoxy compound;
- Part 4. Unsaturated polyester based impregnating resin;
- Part 5. quartz filler epoxy compound;
- Part 6. Class 1E nuclear power plant distribution transformer insulation epoxy casting resin; This section GB/T 15022 Part 6. This section drafted in accordance with GB/T 1.1-2009 given rules. Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents. This part is proposed by the China Electrical Equipment Industrial Association. This part of the National Standardization Technical Committee of the insulating material (SAC/TC51) centralized. This section is drafted. Heaven Beijing Lingyun Technology Co., Ltd., Suzhou Taihu New Materials Co., electrician, electrical Guilin Research Institute Limited. The main drafters of this section. Wu Haifeng, Malin Quan, Song Yuxia, Luozhuan Yong, Zhang Chunqi. Electrical insulation resin based reactive compounds Part 6. Distribution Transformer Insulation Class 1E nuclear power plant With epoxy casting resin

1 Scope

GB/T 15022.6-2014 is the Chinese national standard on resin based reactive compounds used for electrical insulation-part 6: epoxy casting resinous compounds use for class 1e distribution transformer in nuclear power generating stations, in the field of electrical

engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 5 December 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2015. Classification: ICS 29.035.99, CCS K15. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 15022 specifies the Class 1E nuclear power plant distribution transformers with epoxy casting resin insulation requirements, test methods, inspection rules, packaging, labeling, storage and transport. This section applies to Class 1E nuclear power plant distribution transformer insulation epoxy cast resin.

Note. The heat of the epoxy resin is a high purity, new modified curing agents, accelerators, fillers, and colorants consisting of cured casting resin, points A, B points packaging.

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.

GB/T 1036-2008 plastic -30 °C ~ 30 °C linear expansion coefficient of quartz dilatometer measurement method Test Method.

GB/T 15022.2-2007 electrically insulating resin based reactive compounds - Part 2

GB/T 15223-2008 liquid plastic resin density was measured using a pycnometer method Performance test method

GB/T 29313-2012 thermally conductive electrically insulating material

ISO 2577.2007 Plastics - Determination of thermosetting molding shrinkage (Plastics-Thermosettingmouldingmate- rials-Determinationofshrinkage)

3 Requirements

Delivery time All products comply with the requirements of this section shall be as specified in Table 1. Table

1 Class 1E nuclear power plant distribution transformers with epoxy casting resin insulation requirements No. Performance Unit Claim Group A points Part B