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

GB/T 1981.3-2009

Replacing GB/T 11027-1999

**Varnishes used for electrical insulation -- Part 3: Specifications
for hot curing impregnating varnishes**

电气绝缘用漆 第3部分：热固化浸渍漆通用规范

(English Translation)

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Foreword

GB/T 1981 "for electrical insulation paint" is divided into the following sections.

- Part 1. Definitions and general requirements
- Part 2. Test methods
- Part 3. General specification for hot curing impregnating varnishes
- Part 4. polyester-imide varnish
- Part 5. Fast energy-curable melamine alkyd varnish this section GB/T 1981 Part 3.

This section identical with IEC 60464-3-2:2001 "Electrical insulating paints - Part 3. Specifications for individual materials Sheet 2. Hot curing Varnish "and the first Amendment (2006) (in English).

This part of IEC 60464-3-2:2001 (including Amendment 1, 2006) compared to editorial differences are as follows.

- a) Remove the IEC 60464-3-2. The "Purchase contract should include the name of the material," the provisions of Chapter 3, 2001;
- b) If necessary, press the Edit formats GB/T 1.1 slightly modified, suspended section in Chapter 5 is about 5.1 as the beginning of the "General", the Reg No. postponed;
- c) Remove the IEC 60464-3-2:2001's "References" section, the criteria listed therein under the "normative references" Chapter.

This Part replaces GB/T 11027-1999 "insulating varnishes containing solvent specifications for individual materials for thermal curing impregnating varnishes requirements." this portion of the GB/T 11027-1999 compared, the main differences are as follows.

- a) classification of different names, no further distinguish each type soft type and hard type;

b) editing format, the technical requirements for the type appears no longer to form, but in the reg type listed.

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. Guilin Institute of Electrical Science.

1 Scope

GB/T 1981 provisions of this part of the heat-curable varnish general requirements, including some high-temperature performance requirements.

This section applies to hot curing impregnating varnishes.

2 Normative references

The following documents contain provisions which, through reference to GB/T 1981 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1981.1-2007 electrical insulating paints - Part 1. Definitions and general requirements (IEC 60464-1:1998, IDT) GB/T 1981.2-2009 electrical insulating paints - Part 2. Test methods (IEC 60464-2:2001, MOD) GB 3836.3-2000 Electrical equipment for explosive gas atmospheres Part 3. Increased Safety "e" (eqvIEC 60079-7.1990) GB/T 6109.5-2008 enamelled round winding wire - Part 5. temperature index of 180 polyester enamelled round copper wire (IEC 60317-8:1997, IDT) Part 20 GB/T 6109.20-2008 enamelled round winding line.200 polyamide imide or polyester imide varnish Round copper wire (IEC 60317-12:1990, IDT) Impregnating agents to an enamelled wire substrate bond strength test method GB/T 11028-1999 Determination (eqvIEC 61033.1991) IEC 60172. 1987 Test method for temperature index of enamelled winding wires Determination Category 3

Table 1 of this section by classifying the paint.

Table 1 Classification of paint

Type specifies the level of performance against temperature/°C

4 Definitions and general requirements

Definitions and general requirements, see GB/T 1981.1-2007 in Chapters 4 and 5.

5.1 General

All materials one delivery, in addition shall comply with the requirements of GB/T 1981.1-2007 prescribed, it should also comply with the provisions of this section GB/T 1981.3-2009/IEC 60464-3-2:2001