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

JB/T 10441.3-2004

**Crepe insulating paper for electrical purposes - Part 3:
Technical requirements**

电工用皱纹绝缘纸 第3部分：技术要求

(English Translation)

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Table of Contents

Foreword	3
1 Scope	4
2 Normative references	4
3 Codes	4
4 Requirements	5
4.1 Appearance	5
4.2 Paper roll size	5
4.3 Performance	5
5 Product batch, sampling rules, and exit-factory testing items	6
6 Test methods	6
6.1 Appearance	6
6.2 Outer diameter of the reel, inner diameter of the core, and length of each segment	6
6.3 Requirements for performance in Table 1	6
7 Packaging, marking, storage, and transportation	6
8 Storage period	7

Foreword

JB/T 10441 "Crepe insulating papers for electrical purposes" consists of three parts.

- Part 1: Definitions and general requirements;
- Part 2: Methods of test;
- Part 3: Technical specification.

This Part is Part 3 of JB/T 10441.

The modification of this Part adopts IEC 60554-3-3 "Specification for cellulosic papers for electrical purposes -- Part 3: Specifications for individual materials" (English version). Regarding technical differences, they are included in the main text and marked with a vertical single line in the margins of the clauses they involve.

The main differences between this Part and IEC 60554-3-3 are as follows.

- Deleted the preface of IEC 60554-3-3, and included the content related to standard structure in its introduction in the preface of this Part;
- Added a chapter "Normative reference";

- Added performance requirements such as oil absorption height, electrical strength, and contamination of insulating liquids;
- Incorporated the methods required in Chapter 3 into the definitions and codes in Part 1;
- Added specific content required in Chapter 2;
- Added chapters on inspection rules, packaging, storage and transportation, storage period, etc.

1 Scope

This Part of JB/T 10441 specifies the names, codes, test methods, requirements, inspection rules, packaging, transportation, and storage of substrates for manufacturing crepe insulating papers for electrical purposes and crepe paper products.

The manufacturing of crepe insulating papers for electrical purposes can be divided into one-step and two-step methods. One-step crepe paper is a type of crepe paper manufactured using an intermediate process of an undried flat web base paper. The fibers used and the process of preparing the paper should comply with the requirements of IEC 60554-3-1 "Specification for cellulosic papers for electrical purposes". Two-step crepe paper is a crepe paper manufactured using a crepe process that complies with IEC 60554-3-1 "Specification for cellulosic papers for electrical purposes".

Crepe insulating papers for electrical purposes is mainly used for wrapping insulation of oil immersed transformers, reactors, and transformers.

2 Normative references

The clauses in the following documents are referred to as clauses in this Part of JB/T 10441. Any referenced document with a specified date shall not be subject to any subsequent amendments (excluding errata) or revisions to this Part. However, it is encouraged that all parties who have reached an agreement under this Part study whether the latest versions of these documents can be used. The latest version of any referenced document without a date is applicable to this Part.

JB/T 10441.1, Crepe insulating papers for electrical purposes -- Part 1: Definitions and general requirements (IEC 60554-1:1977, MOD)

JB/T 10441.2, Crepe insulating papers for electrical purposes -- Part 2: Methods of test (IEC 60554-2:1977, MOD)

IEC 60554-3-1, Specification for cellulosic papers for electrical purposes

3 Codes

When producing or ordering crepe paper for electrical use, its code should be prepared according to the requirements of the model, name, and code specified in JB/T 10441.1.

The manufacturer can produce and inspect the product performance according to the requirements of this code. The ordering party can also conduct product performance acceptance according to the requirements of this code.

4.1 Appearance

It shall comply with the provisions of JB/T 10441.

4.2 Paper roll size

Width. It is recommended to use 500 mm $\pm$ 5 mm, 625 mm $\pm$ 5 mm, or according to user requirements.

4.3 Performance

It shall comply with the provisions of Table 1.

5 Product batch, sampling rules, and exit-factory testing

items The product is produced in batches of 2 t continuously. Each batch of samples is composed of three randomly selected volumes, each with a full width of several meters.

Cut specimens from a sample. The other two samples are for backup. Each batch should undergo exit-factory inspection. The items include appearance, number of segments, and items 1, 2, 3, 4, 5, and 11 in Table 1.

6 Test methods

6.2

Outer diameter of the reel, inner diameter of the core, and length of each segment Measure with a steel ruler.

6.1 Appearance

Carry out according to JB/T 10441.2.

6.3 Requirements for performance in Table 1

Carry out according to JB/T 10441.2.

7 Packaging, marking, storage, and transportation

They shall meet the requirements in JB/T 10441.1.