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

GB/T 26873-2025

Replacing GB/T 26873-2011

Spark tester

火花试验机

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 26873-2011 Spark Tester. Compared with GB/T 26873-2011, except for structural adjustments and editorial In addition to the modifications, the main technical changes are as follows.

- a) The term and definition of "spark tester" have been changed (see 3.1, 3.1 of the 2011 edition);
- b) The terms "counter, basic insulation, reference voltage, reference frequency, grade index, percentage error, influence quantity, reference condition" are deleted.
components, distortion factor, reference temperature, rated operating conditions, operating range, operating limit range, type inspection" and their definitions (see 2011 edition 3.2~3.14, 3.16);
- c) Added the "model and structure" requirements for spark testers (see Chapter 4);
- d) The "Technical Requirements" has been changed (see Chapter 5, Chapter 5 of the 2011 edition);
- e) The "Test Methods" has been changed (see Chapter 6, Chapter 6 of the 2011 edition);
- f) The requirements for "Marking, Packaging, Transport and Storage" have been changed (see Chapter 8, Chapter 8 of the 2011 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the China Electrical Equipment Industry Association.

This document was drafted by: Chongqing Metrology and Quality Inspection Institute, Beijing Institute of Electrical Engineering and Economics of Machinery Industry, China Quality Certification Center Co., Ltd., Chongqing Gepai Wire and Cable Co., Ltd., and Chongqing Taishan Cable Co., Ltd.

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The previous versions of this document and the documents it replaces are as follows.

- First published in 2011 as GB/T 26873-2011;
- This is the first revision. Spark testing machine

1 Scope

This document specifies the model and structure, technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of spark testing machines.

This document applies to power frequency spark testers and DC spark testers used for on-site testing of wire and cable production.

This document does not apply to pulse spark testers, high-frequency spark testers, spark leak detectors and spark testers for other purposes.

2 Normative references

GB/T 2423.1

GB/T 2423.2

GB/T 2423.4-2008

GB 4793.1-2007

GB/T 5398-2016

GB/T 6587

GB/T 9969

GB/T 11463

GB/T 16511

GB/T 23644

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

It is a special measuring equipment used for testing the insulation performance of cables, consisting of test electrodes, high-voltage power supply, detection control device, protective electrode, etc.

3.2

The position specified by the manufacturer for the instrument to operate normally.

4.1 Model

The spark tester model should meet the relevant requirements of GB/T 23644 and should be characterized by product code, characteristic code, main parameter/second main parameter, The modification code consists of four parts. The model composition is shown in Figure 1.