



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

GB/T 2829-2025

Replacing GB/T 2829-2002

**Sampling procedures and tables for periodic inspection by
attributes**

周期检验计数抽样程序及表

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Bibliography

Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020, Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents.

This document replaces GB/T 2829-2002, Sampling procedures and tables for periodic inspection by attributes (Apply to inspection of process stability); compared with GB/T 2829-2002, in addition to structural adjustments and editorial changes, the main changes are as follows:

sampling plan of determinant level I", "corresponding double sampling plan", and "sampling plan with a sample size of 1 in a quintic sampling plan" (see Tables 2, 5, and 8 of the 2002 edition);

characteristic curves of the single sampling plan of the design value given by the decision array to operational characteristic curves and corresponding table values of operating characteristic curves of the single sampling plan with the same sample size (see Figures 1~21, Tables 11~31; Figures 1~12 and Tables 11~22 of the 2002 edition);

submitted product (p), and re-calculate the values of the double and quintic average sample sizes (see Figures 22~38; Figures 13~28 of the 2002 edition);

level", "specifications for determinant level", "selection of the type of sampling plan", "search of single sampling plan" and "operating characteristic curve and average sample size curve" (see 5.5, 5.6, 5.7, 5.8.2, and Chapter 6; 5.5, 5.6, 5.7, 5.8.1, and Chapter 6 of the 2002 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying patents.

This document shall be under the jurisdiction of National Technical Committee 21 on Application of Statistical Methods of Standardization Administration of China (SAC/TC 21).

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This document was first published in 1982, revised for the first time in 1987, and revised for the second time in 2002; this is the third revision.

1 Scope

This document specifies the single, double and quintic sampling plans and sampling procedures, indexed by the rejectable quality levels (expressed as the percent nonconforming or the nonconformities per 100 items).

This document applies to the inspection by attributes of process stability by the manufacturer. It sets the lower limit value (rejectable quality level) of lot quality for specific lots (within a period) to control product quality problems caused by system instability in the production process.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 3358.1, Statistics - Vocabulary and symbols - Part 1: General statistical terms and terms used in probability
GB/T 3358.2, Statistics - Vocabulary and symbols - Part 2: Applied statistics
GB/T 19000, Quality management systems - Fundamentals and vocabulary

3 Terms, definitions and symbols

3.1 Terms and definitions

A thing that can be described and considered independently. a system, or a combination thereof. A certain quantity of certain products, materials, or services that are brought together under certain conditions. production pattern inspection, or all items manufactured within a specified period during the mass production process after passing the production pattern inspection. The number of items contained in a lot. The item selected from the lot for inspection. A subset of a population consisting of one or more sample units. The number of sample units contained in the sample. units in the sample after the last stage of sampling is completed. The quality characteristics of the item do not meet the requirements. item quality represented by the quality characteristics, or according to the severity of the quality characteristic nonconformity – into: class A nonconformity, class B nonconformity and class C nonconformity. The critical quality characteristics of the item do not meet the requirements, or the quality characteristics of the item are extremely seriously non-compliant with the requirements. The major quality characteristics of the item do not meet the requirements, or the quality characteristics of the item are seriously non-compliant with the requirements. rejectable quality level (RQL) that is larger than that of a class A

nonconformity but smaller than that of a class C nonconformity. The general quality characteristics of the item do not meet the requirements, or the quality characteristics of the item are slightly non-compliant with the requirements. quality level (RQL) than that for both Class A and Class B. An item with one or more nonconformities. be divided into: class A nonconforming item, class B nonconforming item, and class C nonconforming item. Class A nonconforming items are those with one or more class A nonconformities, or also with class B and/or class C nonconformities; class B nonconforming items are items with one or more class B nonconformities, or also with class C nonconformities, but without class A nonconformities; class C nonconforming items are items with one or more class C nonconformities, but without class A and class B nonconformities. The quality of an individually submitted lot (expressed as percent nonconforming or nonconformities per 100 items). The lower limit of lot quality considered unacceptable during periodic inspection. The activity of measuring, inspecting, testing one or more characteristics, and comparing it with specified requirements to determine whether a product or process is conforming.

3.2 Symbols

The following symbols apply to this document. number, change the numerical subscript c to 1, 2, For example, A2 represents the second acceptance number. sample size, etc., add numerical subscripts 1, 2, ... respectively. For example, n5 represents the fifth sample size.

4 Inspection procedures

The inspection procedures specified in this document are as follows:

- b) Select test items and form test groups;
- c) Specify the test methods and quality characteristics;
- d) Specify the classification of nonconformities;
- e) Specify the rejection quality level;
- g) Select the type of sampling plan;
- k) Determine whether the periodic inspection is acceptable or unacceptable;

5 Implementation of inspection

5.1 Specifications for inspection cycle

5.3 Specifications for test methods and quality characteristics

5.4 Classification of nonconformities

Based on the specific circumstances of each test group, the nonconformity of quality