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

GB/T 6378.3-2024

**Sampling procedures for inspection by variables - Part 3:
Double sampling schemes indexed by acceptance quality limit
(AQL) for lot-by-lot inspection
(English Translation)**

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Table of Contents

Preface	
Introduction	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Symbols and abbreviations	
4.1 Symbols	
4.2 Abbreviations	
5 Acceptance Quality Limit (AQL)	
5.1 Principle	
5.2 Purpose	
5.3 AQL value specification	
5.4 Priority AQL value	
5.5 Note	
5.6 Limitations	
6 Rules for transfer between normal, tightened and relaxed inspections	
7 Relationship with GB/T 2828.1	
7.1 Similarities with GB/T 2828.1	
7.2 Differences from GB/T 2828.1	
8 Extreme Quality Protection	
8.1 Use of a single solution	
8.2 User risk quality table	
8.3 Producer Risk Table	
8.4 Operating characteristic curve	
9 Planning	
10 The choice between metering and counting	
11 Choice of method	
12 Selection of primary and secondary sampling plans	
13 Selection of inspection level and AQL	
14 Selection of sampling plan	
14.1 Standard solution	
14.2 Special Scheme	

- 15 Preparatory Operations
- 16 Standard procedure for single variable s method
 - 16.1 Search plan, sampling and preliminary calculations
 - 16.2 K-criterion acceptance procedure for the s-method-one-sided specification limit
 - 16.3 K-criterion acceptance procedure for the s-method-separate control double-sided specification limits
 - 16.4 Acceptance Procedure for the p^* Criterion of the S Method - Joint Control of Bilateral Normative Limits
 - 16.5 Acceptance Procedure for the p^* Criterion of the S Method --- Composite Control Bilateral Specification Limits
- 17 Standard Procedure for One-Sided Variables of the sigma Method
 - 17.1 Search plan, sampling and preliminary calculations
 - 17.2 K-criterion acceptance procedure for the sigma method-one-sided specification limit
 - 17.3 K-criterion acceptance procedure for the sigma method-discrete control double-sided specification limits
 - 17.4 Acceptance Procedure for the p^* Criterion of the sigma Method --- Joint Control of Bilateral Specification Limits
 - 17.5 Acceptance Procedure for the p^* Criterion of the sigma Method --- Composite Control Bilateral Specification Limits
- 18 Continuous Inspection Procedure
- 19 Normality and Outliers
 - 19.1 Normality
 - 19.2 Outliers
- 20 Record
 - 20.1 Control chart
 - 20.2 Unacceptable batches
- 21 Implementation of transfer rules
 - 21.1 Normal inspection
 - 21.2 From normal inspection to strict inspection
 - 21.3 Strict Inspection
 - 21.4 Relaxation of the test
- 22 Suspension and resumption of inspection
- 23 Conversion between s-method and sigma-method
 - 23.1 Estimation of process standard deviation
 - 23.2 Statistical Controlled State
 - 23.3 From the s-method to the sigma-method
 - 23.4 From the sigma-method to the s-method

Appendix A (Informative) Standard Procedure for Subsampling Multiple Independent Quality Characteristics Using the S Method
Appendix B (Informative) Standard Procedure for Subsampling Multiple Independent Quality Characteristics Using the sigma Method
Appendix C (Informative) Standard Procedure for Subsampling Multiple Independent Quality Characteristics Using the Combined S- and sigma-Methods
Appendix D (Informative) Location of key clauses
Appendix E (Normative) Estimation Method of Process Defective Rate
Appendix F (Informative) S-method K-criterion matching with single sampling plan for attributes Single sampling plan for measurement
Appendix G (Informative) sigma-method k-criterion for matching single sampling plans with attributes Single sampling plans for measurement
Appendix H (Informative) Average Sample Size for Subsampling Method
Appendix I (Informative) Risks of the producer under the S method
Appendix J (Informative) Operating Characteristics of Subsampling Schemes with Known Process Standard Deviations Table
Appendix K (Informative) Comparison table of average sample sizes for normal inspection measurement secondary sampling plan and corresponding measurement primary sampling plan
Appendix L (Informative) Comparison table of average sample sizes of measurement subsampling schemes and corresponding attribute sampling schemes
Appendix M (Informative) Design Principles
References

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 is part 3 of GB/T 6378 "Measurement sampling inspection procedures". GB/T 6378 has been published in the following parts.

- Part 1: Single sampling for batch inspection of a single quality characteristic and a single AQL indexed by acceptance quality limit (AQL) plan;
- Part 3: Secondary sampling plan for batch inspection based on acceptance quality limit (AQL);
- Part 4: Procedure for assessing the claimed quality level of the mean;
- Part 7: Procedure for assessing the claimed quality level for the nonconforming rate.

This document is modified to adopt ISO 3951-3:2007 "Sampling procedures for measurement - Part 3: Sampling procedures based on acceptance quality limit (AQL)" "Subsampling Plan for Batch Inspection".

The technical differences between this document and ISO 3951-3:2007 and their reasons are as follows.

- Added the definition of term 3.30 "indistinguishable point". The concept of indistinguishable point is mentioned in the standard, but there is no corresponding term explanation;
- Changed the normative references in Chapter 2, replacing ISO 3534-1 with undated GB/T 3358.1;
- Changed "for example. R1" in 8.4 operating characteristic curve to "for example. T1, T2,, R1, R2", which is consistent with the previous sentence the two letters T or R in the table correspond to the actual table;
- Added the corresponding scheme when the sample size code is L and the receiving quality limit is 0.1 in Table 24, which is missing in the original text;
- Changed the nature of the appendices in the document, and all normative appendices were adjusted to informative appendices.

The following editorial changes were made to this document.

- Deleted "as shown in 10d) above" in the selection of method 11, the original text is wrong;
- Changed " σ " in 17.1 Retrieval plan, sampling and preliminary calculation to " σ_{max} ", the original text is wrong;
- Changed the value of the mean $\bar{x}_{L,1}$ of the first sample lower specification limit in Table 3, "500.79" to "500.81"; the first sample lower specification limit the value of the standard deviation $s_{L,1}$ of "2.669" is changed to "2.2403", and the value of the lower specification limit quality statistic $QL,1=(\bar{x}_{L,1}-L)/s_{L,1}$ is changed to "2.5541" is changed to "2.5934", the value of the mean of the upper specification limit of the first sample $\bar{x}_{U,1}$ is changed from "500.25" to "500.27", and the first sample the value of the standard deviation $s_{U,1}$ of the upper specification limit is changed from "2.4567" to "2.4407", and the quality statistic $QU,1$ of the upper specification limit is changed from $(U-\text{the value of } \bar{x}_{U,1})/s_{U,1}$ "1.9335" was changed to "1.9380", which was wrong in the original text;
- Changed the calculation of the lower limit of step f in E.5 of Table 6, "wLIntroduction the metrological inspection with the percentage of nonconforming products as the quality indicator in this document includes several modes, the possible combinations of which are more convenient for users.

For complexity.