SRI LANKA STANDARD

SLS ISO 3951-5 : 2016 UDC 543.05

SAMPLING PROCEDURES FOR INSPECTION BY VARIABLES –

PART 5 : SEQUENTIAL SAMPLING PLANS INDEXED BY ACCEPTANCE QUALITY LIMIT (AQL) FOR INSPECTION BY VARIABLES (KNOWN STANDARD DEVIATION)

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard SAMPLING PROCEDURES FOR INSPECTION BY VARIABLES – PART 5: SEQUENTIAL SAMPLING PLANS INDEXED BY ACCEPTANCE QUALITY LIMIT (AQL) FOR INSPECTION BY VARIABLES (KNOWN STANDARD DEVIATION)

SLS ISO 3951-5: 2016 (ISO 3951-5: 2006)

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Sri Lanka Standard SAMPLING PROCEDURES FOR INSPECTION BY VARIABLES – PART 5: SEQUENTIAL SAMPLING PLANS INDEXED BY ACCEPTANCE QUALITY LIMIT (AQL) FOR INSPECTION BY VARIABLES (KNOWN STANDARD DEVIATION)

NATIONAL FOREWORD

This standard was approved by the Sectoral Committee on Building and Construction Materials and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standard Institution on 2016-07-22.

This Sri Lanka Standard is identical with **ISO 3951-5: 2006,** published by the International Organization for Standardization (**ISO**).

This Sri Lanka standard specifies a system of sequential sampling plans (schemes) for lot-by-lot inspection by variables. The schemes are indexed in terms of a preferred series of acceptance quality limit (AQL) values, ranging from 0.01 to 10, which are defined in terms of percent nonconforming items.

TERMINOLOGY AND CONVENTIONS

The text of the International Standard has been accepted as suitable for publication as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards.

Attention is therefore drawn to the following:

- a) Wherever the "International Standard" appear referring to this standard they should be interpreted as "Sri Lanka Standard".
- b) Wherever page numbers are quoted, they are "**ISO**" page numbers.
- c) The coma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use a full point on the base line as the decimal marker.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test method or observation shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

SLS ISO 3951-5 : 2016 ISO 3951-5 : 2006

CROSS REFERENCES

International Standard

ISO 2859-1 : Sampling procedures for inspection by attributes -- Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

ISO 3951-1: Sampling procedures for inspection by variables -- Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL

Corresponding Sri Lanka Standard

SLS ISO 2859-1: Sampling procedures for inspection by attributes -- Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

SLS ISO 3951-1: Sampling procedures for inspection by variables -- Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL

INTERNATIONAL STANDARD

ISO 3951-5

First edition 2006-03-01

Sampling procedures for inspection by variables —

Part 5:

Sequential sampling plans indexed by acceptance quality limit (AQL) for inspection by variables (known standard deviation)

Règles d'échantillonnage pour les contrôles par mesures —

Partie 5: Plans d'échantillonnage séquentiels indexés d'après la limite d'acceptation de qualité (LAQ) pour l'inspection par variables (écart-type connu)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3951-5 was prepared by Technical Committee ISO/TC 69, *Applications of statistical methods*, Subcommittee SC 5, *Acceptance sampling*.

This edition cancels and replaces Annex A of ISO 8423:1991, which has been technically revised to greatly improve its compatibility with the sampling systems in ISO 3951-1.

ISO 3951 consists of the following parts, under the general title Sampling procedures for inspection by variables:

- Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL
- Part 5: Sequential sampling plans indexed by acceptance quality limit (AQL) for inspection by variables (known standard deviation)

The following parts are under preparation:

- Part 2: General specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection of independent quality characteristics
- Part 3: Double sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection