

**SRI LANKA STANDARD**  
**SLS ISO 3951-1 : 2016**  
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**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**

**SRI LANKA STANDARDS INSTITUTION**

**Sri Lanka Standard**  
**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**

**SLS ISO 3951-1 : 2016**  
**(ISO 3951-1 : 2013)**

**Gr. X**

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**Sri Lanka Standard**  
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## **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 3951-1: 2013**, published by the International Organization for Standardization (**ISO**).

This Sri Lanka standard specifies an acceptance sampling system of single sampling plans for inspection by variables. It is indexed in terms of the acceptance quality limit (AQL).

## **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.

## **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

### **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

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**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**

*Règles d'échantillonnage pour les contrôles par mesures —*

*Partie 1: Spécification pour les plans d'échantillonnage simples indexés  
par un niveau de qualité acceptable (NQA) pour un contrôle lot par lot  
pour une caractéristique de qualité unique et un NQA unique*



# Contents

	Page
<b>Foreword</b> .....	<b>vi</b>
<b>Introduction</b> .....	<b>vii</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Symbols</b> .....	<b>5</b>
<b>5 Acceptance quality limit (AQL)</b> .....	<b>6</b>
5.1 Concept.....	6
5.2 Use.....	7
5.3 Specifying AQLs.....	7
5.4 Preferred AQLs.....	7
5.5 Caution.....	7
5.6 Limitation.....	7
<b>6 Switching rules for normal, tightened, and reduced inspection</b> .....	<b>7</b>
<b>7 Relation to ISO 2859-1</b> .....	<b>8</b>
7.1 Similarities.....	8
7.2 Differences.....	8
<b>8 Consumer protection</b> .....	<b>9</b>
8.1 Use of individual plans.....	9
8.2 Consumer's risk quality (CRQ) tables.....	9
8.3 Producer's risk tables.....	9
8.4 Operating characteristic (OC) curves.....	9
<b>9 Allowing for measurement uncertainty</b> .....	<b>10</b>
<b>10 Planning</b> .....	<b>10</b>
<b>11 Choice between variables and attributes</b> .....	<b>10</b>
<b>12 Choice between the <i>s</i>-method and <math>\sigma</math>-method</b> .....	<b>11</b>
<b>13 Choice of inspection level and AQL</b> .....	<b>11</b>
<b>14 Choice of sampling scheme</b> .....	<b>11</b>
14.1 Standard plans.....	11
14.2 Special plans.....	12
<b>15 Preliminary operations</b> .....	<b>12</b>
<b>16 Standard procedures for the <i>s</i>-method</b> .....	<b>13</b>
16.1 Obtaining a plan, sampling, and preliminary calculations.....	13
16.2 Acceptability criteria for single specification limits.....	13
16.3 Graphical method for a single specification limit.....	15
16.4 Acceptability criterion for combined control of double specification limits.....	15
<b>17 Standard procedures for the <math>\sigma</math>-method</b> .....	<b>21</b>
17.1 Obtaining a plan, sampling, and preliminary calculations.....	21
17.2 Acceptability criteria for a single specification limit.....	21
17.3 Acceptability criterion for combined control of double specification limits.....	22
<b>18 Procedure during continuing inspection</b> .....	<b>23</b>
<b>19 Normality and outliers</b> .....	<b>24</b>
19.1 Normality.....	24
19.2 Outliers.....	24
<b>20 Records</b> .....	<b>24</b>

20.1	Control charts .....	24
20.2	Lots that are not accepted .....	24
<b>21</b>	<b>Operation of switching rules .....</b>	<b>24</b>
<b>22</b>	<b>Discontinuation and resumption of inspection .....</b>	<b>25</b>
<b>23</b>	<b>Switching between the <i>s</i>-method and <math>\sigma</math>-method .....</b>	<b>25</b>
23.1	Estimating the process standard deviation .....	25
23.2	State of statistical control .....	26
23.3	Switching from the <i>s</i> -method to the $\sigma$ -method .....	26
23.4	Switching from the $\sigma$ -method to the <i>s</i> -method .....	26
<b>24</b>	<b>Charts B to R — Operating characteristic curves and tabulated values for single sampling plans, normal inspection: <i>s</i>-method .....</b>	<b>28</b>
24.1	Operating characteristic curves and tabulated values for sample size code letter B: <i>s</i> -method .....	28
24.2	Operating characteristic curves and tabulated values for sample size code letter C: <i>s</i> -method .....	29
24.3	Operating characteristic curves and tabulated values for sample size code letter D: <i>s</i> -method .....	30
24.4	Operating characteristic curves and tabulated values for sample size code letter E: <i>s</i> -method .....	31
24.5	Operating characteristic curves and tabulated values for sample size code letter F: <i>s</i> -method .....	32
24.6	Operating characteristic curves and tabulated values for sample size code letter G: <i>s</i> -method .....	33
24.7	Operating characteristic curves and tabulated values for sample size code letter H: <i>s</i> -method .....	34
24.8	Operating characteristic curves and tabulated values for sample size code letter J: <i>s</i> -method .....	35
24.9	Operating characteristic curves and tabulated values for sample size code letter K: <i>s</i> -method .....	36
24.10	Operating characteristic curves and tabulated values for sample size code letter L: <i>s</i> -method .....	37
24.11	Operating characteristic curves and tabulated values for sample size code letter M: <i>s</i> -method .....	38
24.12	Operating characteristic curves and tabulated values for sample size code letter N: <i>s</i> -method .....	39
24.13	Operating characteristic curves and tabulated values for sample size code letter P: <i>s</i> -method .....	40
24.14	Operating characteristic curves and tabulated values for sample size code letter Q: <i>s</i> -method .....	41
24.15	Operating characteristic curves and tabulated values for sample size code letter R: <i>s</i> -method .....	42
<b>25</b>	<b>Charts s-D to s-R — Acceptance curves for combined control of double specification limits: <i>s</i>-method .....</b>	<b>43</b>
<b>Annex A</b>	<b>(normative) Table for determining the sample size code letter .....</b>	<b>56</b>
<b>Annex B</b>	<b>(normative) Form <i>k</i> for single sampling plans: <i>s</i>-method .....</b>	<b>57</b>
<b>Annex C</b>	<b>(normative) Form <i>k</i> for single sampling plans: <math>\sigma</math>-method .....</b>	<b>60</b>
<b>Annex D</b>	<b>(normative) Values of <math>f_s</math> for maximum sample standard deviation (MSSD) .....</b>	<b>63</b>
<b>Annex E</b>	<b>(normative) Values of <math>f_\sigma</math> for maximum process standard deviation (MPSD) .....</b>	<b>66</b>
<b>Annex F</b>	<b>(normative) Estimating the process fraction nonconforming for sample size 3: <i>s</i>-method ..</b>	<b>67</b>
<b>Annex G</b>	<b>(normative) Single sampling plans of Form <i>p</i>* .....</b>	<b>70</b>
<b>Annex H</b>	<b>(normative) Values of <math>c_U</math> for upper control limit on the sample standard deviation .....</b>	<b>71</b>

<b>Annex I (normative) Supplementary acceptability constants for qualifying towards reduced inspection</b> .....	<b>72</b>
<b>Annex J (normative) Procedures for obtaining <math>s</math> and <math>\sigma</math></b> .....	<b>73</b>
<b>Annex K (informative) Consumer's risk qualities</b> .....	<b>75</b>
<b>Annex L (informative) Producer's risks</b> .....	<b>79</b>
<b>Annex M (informative) Operating characteristics for the <math>\sigma</math>-method</b> .....	<b>83</b>
<b>Annex N (informative) Estimating the process fraction nonconforming for sample sizes 3 and 4: <math>s</math>-method</b> .....	<b>84</b>
<b>Annex O (normative) Accommodating measurement variability</b> .....	<b>87</b>
<b>Bibliography</b> .....	<b>92</b>

## 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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 69, *Application of statistical methods*, SC 5, *Acceptance sampling*.

This second edition cancels and replaces the first edition (ISO 3951-1:2006), of which it constitutes a minor revision with the following changes:

- procedures have been introduced to accommodate measurement uncertainty;
- many of the sampling plans have been adjusted to improve the match between their operating characteristic curves and the operating characteristic curves of the corresponding plans for single sampling by attributes in ISO 2859-1.

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 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*
- *Part 4: Procedures for assessment of declared quality levels*
- *Part 5: Sequential sampling plans indexed by acceptance quality limit (AQL) for inspection by variables (known standard deviation)*