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

ICS 03.120.30

Reference number : JIS Z 9015-1 : 2006 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS Z 9015-1 : 1999** is replaced with this Standard.

This revision has been made based on **ISO 2859-1 : 1999** *Sampling procedures for inspection by attributes—Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS Z 9015 consists of the following 4 parts under the general title “*Sampling procedures for inspection by attributes*”:

JIS Z 9015-0 *Part 0: Introduction to the JIS Z 9015 attribute sampling system*

JIS Z 9015-1 *Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

JIS Z 9015-2 *Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection*

JIS Z 9015-3 *Part 3: Skip-lot sampling procedures*

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

Introduction This Japanese Industrial Standard has been prepared based on the second edition of **ISO 2859-1** *Sampling procedures for inspection by attributes—Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection* published in 1999 and Technical corrigendum 1 published in 2001 without modifying the technical contents.

The portions given dotted underlines are the matters not stated in the original International Standard.

Significant changes in this edition include:

- a new procedure for switching from normal to reduced inspection;
- a reference to skip-lot sampling as an alternative to reduced inspection;
- the term “limiting quality” has been changed to “consumer’s risk quality” in the heading of attached tables 6-A, 6-B, 6-C, 7-A, 7-B and 7-C;
- a new table has been added giving producer’s risk as the probability of rejection of lots with percent nonconforming equal to the AQL;
- fractional acceptance number plans have been added; the purpose of these plans is to provide a consistent progression from the plans for acceptance number zero to the acceptance number 1 plans. The fractional acceptance number plans are found in attached tables 11-A, 11-B and 11-C, where they take the place of the arrows in the corresponding positions in attached tables 2-A, 2-B and 2-C;
- reduced plans have been changed to eliminate the gap between the acceptance and rejection numbers;

Information : By this change, the rule of acceptance with reservations in the procedure in the conventional standard has been resolved.

- some changes have been made to the double sampling plans to provide a smaller average sample size;
- multiple sampling plans have been changed to five stages rather than seven. The change has not increased the average sample size. Some of the new plans have a smaller average sample size than their counterparts in the previous edition;
- scheme operating characteristic curves have been added as attached table 12.

JIS Z 9015 consists of the following parts, under the general title “*Sampling procedures for inspection by attributes*”:

- *Part 0: Introduction to the JIS Z 9015 attribute sampling system*
- *Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*