Sampling procedures for inspection by attributes —

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

Règles d'échantillonnage pour les contrôles par attributs —
Partie 1: Procédures d'échantillonnage pour les contrôles lot par lot, indexées d’après le niveau de qualité acceptable (NQA)
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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 3.

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.

International Standard ISO 2859-1 was prepared by Technical Committee ISO/TC 69, Applications of statistical methods, Subcommittee SC 5, Acceptance sampling.

This second edition of ISO 2859-1 cancels and replaces the first edition (ISO 2859-1:1989) of which it constitutes a technical revision.

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 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;
— optional 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 Tables 11-A, 11-B and 11-C, where they take the place of the arrows in the corresponding positions in tables 2-A, 2-B and 2-C;
— reduced plans have been changed to eliminate the gap between the acceptance and rejection numbers;
— 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 Table 12.

ISO 2859 consists of the following parts, under the general title Sampling procedures for inspection by attributes:

— Part 0: Introduction to the ISO 2859 attribute sampling system
— Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
— Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection
Part 3: Skip-lot sampling procedures

It is highly recommended that this part of ISO 2859 be used together with ISO 2859-0, which contains illustrative examples.

Annex A of this part of ISO 2859 is for information only.