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International Standard



4519

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Electrodeposited metallic coatings and related finishes — Sampling procedures for inspection by attributes

Dépôts électrolytiques et finitions apparentées — Méthodes d'échantillonnage pour le contrôle par attributs

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4519 was developed by Technical Committee ISO/TC 107, *Metallic and other non-organic coatings*, and was circulated to the member bodies in March 1979.

It has been approved by the member bodies of the following countries :

| | | |
|----------------|------------------------|-----------------------|
| Bulgaria | Israel | South Africa, Rep. of |
| Canada | Italy | Spain |
| Czechoslovakia | Japan | Sweden |
| France | Korea, Rep. of | Switzerland |
| Germany, F.R. | Libyan Arab Jamahiriya | Turkey |
| Hungary | Poland | United Kingdom |
| India | Romania | USA |

The member body of the following country expressed disapproval of the document on technical grounds :

Netherlands

Electrodeposited metallic coatings and related finishes — Sampling procedures for inspection by attributes

1 Scope and field of application

This International Standard establishes sampling plans and procedures for inspection by attributes of electrodeposited metallic coatings. It may be applied to related finishes by agreement between the supplier and the purchaser. It is based on ISO 2859 (see also Addendum 1 to ISO 2859).

The sampling plans in this International Standard are applicable, but not limited, to the inspection of end items, components, materials in process and finished products in storage. The plans are intended primarily to be used for a continuing series of lots, but they may also be used for the inspection of isolated lots. However, the assurance given for isolated lots is lower than that given for a continuing series of lots.

This International Standard is not applicable to the sampling and testing of mechanical fasteners having electrodeposited metallic coatings or related finishes, in all the circumstances for which procedures for these components are specified in ISO 3269.

The sampling plans given in this International Standard are based on AQLs¹⁾ of 1,5 and 4,0 %. Other AQLs may be used if specified in the product specification, in which case reference should be made to ISO 2859 and its Addendum 1.

It is also possible to formulate sampling plans based on inspection by variables.

2 References

ISO 2859, *Sampling procedures and tables for inspection by attributes*.

ISO 2859/Add. 1, *General information on sampling inspection, and guide to the use of the ISO 2859 tables*.

ISO 3269, *Fasteners — Acceptance inspection*.²⁾

ISO 3534, *Statistics — Vocabulary and symbols*.

3 Definitions

NOTE — Some of these definitions are not identical with those in ISO 3534 but have been modified to make them easier to understand by non-statisticians and to make them more readily applicable to electroplated items.

3.1 inspection : The process of measuring, examining, testing, or otherwise comparing the unit of product (see 3.4) with the requirements.

3.2 attribute : A characteristic or property which is appraised in terms of whether it does or does not exist (for example go or no-go) with respect to a given requirement.

3.3 inspection by attribute(s) : Inspection whereby either the unit of product is simply classified as defective or non-defective, or the number of defects in the unit of product is counted, with respect to one or more given requirements.

3.4 unit of product : The object inspected either to determine its classification as defective or non-defective, or to count the number of defects. It may be a single article, a pair, a set, a length, an area, an operation, a volume, a component of an end item or the end product itself. The unit of product may or may not be the same as the unit of purchase, supply, production, or shipment.

3.5 acceptance number : The maximum number of defects or defective units in the sample that will permit acceptance of the inspection lot.

3.6 rejection number : The minimum number of defects or defective units in the sample that will cause rejection of the inspection lot.

3.7 inspection lot : A collection of coated articles that are of the same kind, that have been produced to the same specifications, that have been coated by a single supplier at one time, or at approximately the same time, under essentially identical conditions and that are submitted for acceptance or rejection as a group.

1) AQL = Acceptable Quality Level.

2) At present at the stage of draft.