INTERNATIONAL STANDARD

ISO 10349-1

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Photography — Photographic-grade chemicals — Test methods —

Part 1: General

Photographie — Produits chimiques de qualité photographique — Méthodes d'essai —

Partie 1: Généralités

Reference number
ISO 10349-1:1992(E)

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.

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 10349-1 was prepared by Technical Committee ISO/TC 42, *Photography*.

ISO 10349 consists of the following parts, under the general title *Photography — Photographic-grade chemicals — Test methods*:

— *Part 1: General*

— *Part 2: Determination of matter insoluble in water*

— *Part 3: Determination of matter insoluble in ammonium hydroxide solution*

— *Part 4: Determination of residue after ignition*

— *Part 5: Determination of heavy metals and iron content*

— *Part 6: Determination of halide content*

— *Part 7: Determination of alkalinity or acidity*

— *Part 8: Determination of volatile matter*

— *Part 9: Reaction to ammoniacal silver nitrate*

— *Part 10: Determination of sulfide content*

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— *Part 11: Determination of specific gravity*

— *Part 12: Determination of density*

Annex A of this part of ISO 10349 is for information only.

Introduction

This part of ISO 10349 and subsequent parts deal with photographic-grade chemicals and their test methods which are cited in other International Standards for photographic-grade chemicals. Although the ultimate criterion for suitability of a photographic-grade chemical is its successful performance in an appropriate use test, the shorter, more economical test methods described in subsequent parts of ISO 10349, used with those tests included in the specific chemical standards, are generally adequate.

Over the past few years, great improvements have been made in instrumentation for various analyses. Where such techniques have equivalent or greater precision, they may be used in place of the tests described in the appropriate general test method standard for photographic-grade chemicals or the International Standards for photographic-grade chemicals. Correlation of such alternative procedures with the given method is the responsibility of the user.

Although ISO 10349 is intended for use by individuals with a knowledge of analytical techniques, this may not always be the case. Care has been taken to provide warnings for particularly hazardous materials. General hazard warnings for chemicals used in ISO 10349 and other associated International Standards are given in the text as a symbol code as a reminder in those steps detailing handling operations. More detailed information regarding hazards, handling, and use of these chemicals may be available from the manufacturer.

An index of the most current versions of the associated International Standards dealing with photographic-grade chemicals and the test methods is given in annex A. This annex will be updated on a regular basis with the issue of any revisions or additions to ISO 10349 or the chemical specification standards.

Photography — Photographic-grade chemicals — Test methods —

Part 1: General

1 Scope

This part of ISO 10349 specifies criteria for reagents and materials, and addresses a number of general and common aspects involved in performing the tests given in subsequent parts of ISO 10349.

Annex A provides an index of the most current versions of the associated International Standard on photographic-grade chemical specifications.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 10349. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 10349 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 385-1:1984, *Laboratory glassware — Burettes — Part 1: General requirements.*

ISO 648:1977, *Laboratory glassware — One-mark pipettes.*

ISO 835-1:1981, *Laboratory glassware — Graduated pipettes — Part 1: General requirements.*

ISO 835-2:1981, *Laboratory glassware — Graduated pipettes — Part 2: Pipettes for which no waiting time is specified.*

ISO 835-3:1981, *Laboratory glassware — Graduated pipettes — Part 3: Pipettes for which a waiting time of 15 s is specified.*

ISO 835-4:1981, *Laboratory glassware — Graduated pipettes — Part 4: Blow-out pipettes.*

ISO 1042:1983, *Laboratory glassware — One-mark volumetric flasks.*

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods.*

ISO 4788:1980, *Laboratory glassware — Graduated measuring cylinders.*

ISO 5667-1:1980, *Water quality — Sampling — Part 1: Guidance on the design of sampling programmes.*

ISO 5667-2:1991, *Water quality — Sampling — Part 2: Guidance on sampling techniques.*

ISO 5667-3:1985, *Water quality — Sampling — Part 3: Guidance on the preservation and handling of samples.*

ISO 6353-1:1982, *Reagents for chemical analysis — Part 1: General test methods.*

ISO 6353-2:1983, *Reagents for chemical analysis — Part 2: Specifications — First series.*

ISO 6353-3:1987, *Reagents for chemical analysis — Part 3: Specifications — Second series.*