INTERNATIONAL STANDARD

ISO 3071

Third edition 2005-06-15

Textiles — Determination of pH of aqueous extract

Textiles — Détermination du pH de l'extrait aqueux



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Foreword

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ISO 3071 was prepared by Technical Committee SO/TC 38, Textiles.

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Oreview Oenerales of Files. This third edition cancels and replaces the second edition (ISO 3071:1980), which has been technically revised.

Introduction

The pH-value of the aqueous extract of a textile affords a useful index to its processing history. In addition, it is becoming more common to demand that the textile, in its various forms, conforms to certain limits in respect of its acidity or alkalinity, often expressed in terms of the pH-value of the aqueous extract.

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Textiles — Determination of pH of aqueous extract

1 Scope

This International Standard specifies a method for determining the pH of the aqueous extract of textiles. The method is applicable to textiles in any form.

2 Normative references

The following referenced comments are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3696:1987, Water for analytical aboratory use — Specification and test methods

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 pH

co-logarithm of the hydrogen ion concentration in an aqueous extract

4 Principle

The pH-value of an aqueous extract of a textile is measured electrometrically at room temperature by means of a glass electrode.

5 Reagents

All reagents used shall be of recognized analytical grade.

5.1 Distilled or deionized water, of at least grade 3 as defined in ISO 3696 having a pH between 5,0 and 7,5.

The pH shall be verified the first time the water is used. If it is not within the specified range, the water shall be redistilled using chemically resistant glassware. Acid or organic matter can be removed by distilling water from a solution of 1 g/l potassium permanganate and 4 g/l sodium hydroxide. Alkalinity (e.g. the presence of ammonia) can be removed by distilling the water from a solution of dilute sulfuric acid. If the distilled water is not grade 3, boil 100 ml of distilled water in a beaker at a moderate rate for (10 \pm 1) min and allow the covered beaker to cool to room temperature.

- **5.2** Potassium chloride solution, 0,1 mol/l, prepared using distilled or deionized water (5.1).
- **5.3 Buffer solutions**, which may be prepared as specified in Annex A, having a pH similar to that being determined, for calibration of the pH-meter before measurement. Buffer solutions having a pH around 4, 7 or 9 are recommended.