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Textiles — Bare elastane yarns — Determination of resistance to chlorinated water (swimming-pool water)

Textiles — Fils d'élasthanne nu — Détermination de la résistance à l'eau chlorée (eau de piscine)

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 38, *Textiles*, Subcommittee SC 23, *Fibres and yarns*.

Textiles — Bare elastane yarns — Determination of resistance to chlorinated water (swimming-pool water)

1 Scope

This International Standard specifies a method to determine the resistance of bare elastane yarns to chlorinated aqueous environments, such as swimming pools, through testing of the breaking force retention.

Different alternative test conditions are specified. Three different concentrations and two different exposure hours are considered.

This International Standard is applicable to bare elastane yarns only. Result achieved from yarns cannot be used to predict the fabric performance.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*

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

3 Terms and definition

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

3.1
elastane yarn
fibre composed of at least 85 % by mass of a segmented polyurethane and which, if stretched to three times its unstretched length, rapidly reverts substantially to the unstretched length when the tension is removed

3.2
breaking force retention
capability of a specimen to retain breaking force after a specified treatment whereby the breaking force of the treated specimen is expressed as a percentage of the initial breaking force

4 Principle

Bare elastane yarn is subjected to a “chlorinated-water exposure test”. The physical properties are affected by active chlorine in the solution.

The breaking force retention is the parameter used to determine the chlorine-resistant performance.