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Surface active agents — Fabric conditioners — Determination of antistatic performance

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Contents

Page

Foreword

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This document was prepared by Technical Committee ISO/TC 91 *Surface active agents.*

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Surface active agents — Fabric conditioners — Determination of antistatic performance

1 Scope

This document specifies a method for the determination of static electricity elimination (antistatic) performance.

This document is applicable to fabric conditioners and antistatic agents.

NOTE The differences between this document and some International Standards related to static electricity on textiles are listed in Annex B.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

3.1
fabric surface resistance
R_s
resistance measured when electric current flows through the surface of fabric

3.2
fabric surface resistance coefficient
ρ_s
surface resistance measured by two electrodes of unit length placed on the fabric surface with the distance of unit length between them

Note 1 to entry: Unit length is expressed in centimetres.

3.3
antistatic agent
product used to treat fabric for eliminating static electricity

3.4
fabric conditioner
product with both antistatic and softening function, which generally contains cationic surface active agents

4 Principle

The electrostatic effect of fabric is subject to not only the amount of static electricity generated, but also the dissipation capacity of electrostatic charge. The fabric surface resistance is a physical quantity characterizing the electrostatic charge attenuation velocity of fabric. Soak the test fabric material in