

---

---

**Textiles — Tests for colour fastness —**

Part C09:

**Colour fastness to domestic and  
commercial laundering — Oxidative  
bleach response using a non-phosphate  
reference detergent incorporating a low  
temperature bleach activator**

**AMENDMENT 1**

*Textiles — Essais de solidité des teintures —*

*Partie C09: Solidité des teintures aux lavages domestiques et  
industriels — Blanchiment par oxydation utilisant un détergent de  
référence sans phosphate comprenant un activateur de blanchiment à  
basse température*

*AMENDEMENT 1*



**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2003

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

Amendment 1 to ISO 105-C09:2001 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 1, *Tests for coloured textiles and colorants*.

STANDARDSISO.COM : Click to view the full PDF of ISO 105-C09:2001/Amd.1:2003



## Textiles — Tests for colour fastness —

Part C09:

### Colour fastness to domestic and commercial laundering — Oxidative bleach response using a non-phosphate reference detergent incorporating a low temperature bleach activator

#### AMENDMENT 1

*Page 1, Clause 1*

Delete 4th paragraph.

Replace 5th paragraph with the following text.

This part of ISO 105 specifies a procedure incorporating the use of ECE<sup>1)</sup> non-phosphate reference detergent, sodium perborate tetrahydrate, and the bleach activator tetra-acetylenediamine (TAED) (see Annex A) and a procedure incorporating the use of AATCC 1993 zero phosphate reference detergent (without optical brightener), sodium perborate monohydrate and the bleach activator sodium nonanoyloxybenzene sulfonate (SNOBS) (see Annex B).

This method has been designed for the detergents and bleach systems given. Other detergents and bleach systems may require different conditions and levels of ingredient.

*Page 2, subclause 4.1*

Add the following subclauses under "Reference detergent".

**4.1.4 AATCC 1993 Standard Reference Detergent Base Powder.**

**4.1.5 Bleach activator**, sodium nonanoyloxybenzene sulfonate (SNOBS/NOBS).

**4.1.6 Sodium perborate monohydrate (PB1).**

*Page 3, Clause 7*

Delete existing text and replace with the following.

Provisions are made in Annexes A and B for washing procedures using a specific bleach activator and reference detergent combination.

---

1) European Colourfastness Establishment (ECE).

Add the following annex before the Bibliography.

**Annex B**  
(normative)

**AATCC 1993 Standard Reference Detergent/SNOBS procedure**

**B.1** This annex specifies a procedure incorporating the use of AATCC 1993 Standard Reference Detergent (without fluorescent whitening agent and without phosphate), sodium perborate monohydrate (PB1), and sodium nonanoyloxybenzene sulfonate (SNOBS/NOBS)

The materials are supplied in three separate parts as given in Table B.1:

- a) AATCC 1993 Standard Reference Detergent Base Powder;
- b) bleach activator, sodium nonanoyloxybenzene sulfonate (SNOBS/NOBS);
- c) sodium perborate monohydrate (PB1).

For details of sources of supply apply to: AATCC, PO Box 12215, 1 Davis Drive, Research Triangle Park, NC 27709, U.S.A, [www.aatcc.org](http://www.aatcc.org)<sup>2</sup>.

**Table B.1 — AATCC 1993 Standard Reference Detergent and required materials (without optical brightener or phosphates)**

<b>a) Base detergent</b>	% (± 0,02)
Linear alkyl benzene sulfonate, sodium salt (C <sub>11,8</sub> LAS)	18,00
Sodium alumino silicate solids	25,00
Sodium carbonate	18,00
Sodium silicate solids (SiO <sub>2</sub> /Na <sub>2</sub> O = 1,6)	0,50
Sodium sulfate	22,13
Polyethylene glycol	2,76
Sodium polyacrylate	3,50
Silicone, suds suppressor	0,04
Moisture	10,00
Miscellaneous (unreacted in surfactant stocks)	0,07
<b>b) Sodium nonanoyloxybenzene sulfonate (SNOBS/NOBS) (100 % active)</b>	As separate addition
<b>c) Sodium perborate monohydrate (PB1)</b>	As separate addition

2) AATCC Standard Reference Detergent Base Powder is an example of a suitable product available commercially. This information is given for the convenience of users of this part of ISO 105 and does not constitute an endorsement by ISO of this product.