
**Imaging materials — Processed silver-
gelatin-type black-and-white films —
Specifications for stability**

*Matériaux pour l'image — Films noir et blanc de type gélatino-
argentique traités — Spécifications relatives à la stabilité*



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.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2010

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
Web www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction.....	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Film base requirements	3
5 Processed film requirements	3
5.1 Storage conditions	3
5.2 Safety film.....	3
5.3 Amount of free acid.....	3
5.4 Tensile properties and loss in tensile properties	3
6 Requirements for the emulsion and backing layers of processed film.....	4
6.1 Layer adhesion	4
6.2 Emulsion flow	4
6.3 Blocking.....	4
6.4 Thiosulfate concentration.....	4
6.5 Residual silver compounds.....	5
7 Image-stability requirements	5
7.1 General	5
7.2 Radiographic films	5
7.3 Microfilms.....	6
7.4 Other films.....	6
8 Test methods	6
8.1 Identification of film base	6
8.2 Accelerated-ageing conditions	6
8.3 Determination of the amount of free acid	7
8.4 Tensile property test for processed film.....	8
8.5 Tape-stripping adhesion test	8
8.6 Humidity-cycling adhesion test	9
8.7 Emulsion-flow test.....	10
8.8 Blocking test	10
8.9 Residual silver compound test	11
8.10 Image-stability test	11
Annex A (informative) Washing and the effect of residual thiosulfate on the developed silver image	13
Annex B (informative) Effect of residual silver compounds on the developed silver image.....	14
Annex C (informative) Accelerated image-stability test for radiographic films	15
Annex D (informative) Accelerated image-stability test for microfilms.....	17
Annex E (informative) Accelerated image-stability test for aerial films	19
Bibliography.....	21