

AS/NZS 4578:1999
ISO 7565:1993
Reconfirmed 2016

Australian/New Zealand Standard™

**Micrographics—Readers for
transparent microforms—
Measurement of characteristics**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS/4, Micrographics and Image Management. It was approved on behalf of the Council of Standards Australia on 26 February 1999 and on behalf of the Council of Standards New Zealand on 8 March 1999. It was published on 5 May 1999.

The following interests are represented on Committee MS/4:

Australian Bankers Association
Australian Institute of Genealogical Studies
Institute for Information Management
Land Titles Office, N.S.W.
Library and Information Service of Western Australia
National Archives of Australia
National Library of Australia
National Library of New Zealand
New Zealand Micrographics Industry Interests
Queensland State Archives
State Library of Queensland
University of Melbourne

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Joint Standards and related publications will be found in the Standards Australia and Standards New Zealand Catalogue of Publications; this information is supplemented each month by the magazines 'The Australian Standard' and 'Standards New Zealand', which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF

AS/NZS 4578:1999

**Micrographics—Readers for transparent microforms—Measurement of
characteristics**

RECONFIRMATION NOTICE

Technical Committee IT-021 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 7 December 2015.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 18 May 2016.

The following are represented on Technical Committee IT-021:

AMS Imaging
Archives and Records Association of New Zealand
Archives New Zealand
Australian Society of Archivists
City of Boroondara
Department of Defence (Australian Government)
LINC Tasmania
Monash University
National Archives of Australia
Office of Finance and Services (NSW)
Public Record Office Victoria
Queensland State Archives
Records and Information Management Professionals Australasia
State Records (New South Wales)
State Records Office of Western Australia
The University of Sydney
Transpower New Zealand

NOTES

Australian/New Zealand Standard™

Micrographics—Readers for transparent microforms— Measurement of characteristics

Originated in Australia in part as part of AS 2653—1984, AS 2654—1984 and AS 2655—1984.
Final Australian editions AS 2653—1984, AS 2654—1984 and AS 2655—1992.
AS 2653—1984, AS 2654—1984 and AS 2655—1992 jointly revised,
amalgamated and redesignated in part as AS/NZS 4578:1999.

Published jointly by:

Standards Australia
1 The Crescent,
Homebush NSW 2140 Australia

Standards New Zealand
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MS/4, Micrographics and Image Management, to supersede in part AS 2653—1984, *Microfiche readers for prolonged use*, AS 2654—1984, *Microfiche readers for intermittent use* and AS 2655—1984, *Portable microform readers—Functional requirements*.

The objective of this Standard is to specify methods and instruments for measuring the characteristics for readers specified in AS/NZS 4577, *Micrographics—Readers for transparent microforms—Performance characteristics*. It applies to magnification, resolution, distortion, screen luminance, screen contrast and film gate temperatures.

This Standard is identical with and has been reproduced from ISO 7565:1993, *Micrographics—Readers for transparent microforms—Measurement of characteristics*.

As this Standard is reproduced from an International Standard, the following applies:

- (a) Its number appears on the cover and title page while the International Standard number appears only on the cover.
- (b) In the source text, ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by equivalent Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian or Australian/New Zealand Standard</i>	
ISO		AS	
5	Photography—Density measurements—	—	
5-1	Part 1: Terms, symbols and notations	—	
5-2	Part 2: Geometric conditions for transmission density	—	
5-3	Part 3: Spectral conditions	—	
5-4	Part 4: Geometric conditions for reflection density	—	
446	Micrographics—ISO character and ISO test chart No. 1—Description and use	—	
3334	Micrographics—ISO resolution test chart No. 2—Description and use	—	
6196	Micrographics—Vocabulary—		
6196-1	Section 01: General terms	2422	Glossary of micrographic terms
6196-2	Section 02: Image positions and methods of recording	2422	Glossary of micrographic terms
6196-3	Part 03: Film processing	2422	Glossary of micrographic terms
6196-4	Part 04: Materials and packaging	2422	Glossary of micrographic terms
6196-5	Part 05: Quality of images, legibility, inspection	2422	Glossary of micrographic terms
6196-6	Part 06: Equipment	2422	Glossary of micrographic terms
6196-7	Part 07: Computer micrographics	2422	Glossary of micrographic terms

ISO		AS/NZS	
6198	Micrographics—Readers for transparent microforms—Performance characteristics	4577	Micrographics—Readers for transparent microforms—Performance characteristics
CIE		AS	
Publication No. 17.4:1987, International lighting vocabulary		1852	International Electrotechnical Vocabulary
		1852.845	Part 845: Lighting

© Copyright – STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Users of Standards are reminded that copyright subsists in all Standards Australia and Standards New Zealand publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia or Standards New Zealand may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia or Standards New Zealand. Permission may be conditional on an appropriate royalty payment. Australian requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia. New Zealand requests should be directed to Standards New Zealand.

Up to 10 percent of the technical content pages of a Standard may be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia or Standards New Zealand.

Inclusion of copyright material in computer software programs is also permitted without royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia or Standards New Zealand at any time.

CONTENTS

	<i>Page</i>
1 Scope	1
2 Normative references	1
3 Definitions	1
4 Magnification	1
4.1 Apparatus	1
4.2 Procedure	3
5 Resolution	3
5.1 Test charts	3
5.2 Magnifier	3
5.3 Procedure	3
6 Geometric distortion	3
6.1 Test film	3
6.2 Procedure	3
7 Screen luminance	5
7.1 General conditions	5
7.2 Procedure	6
8 Screen contrast	6
8.1 Apparatus	6
8.2 Screen contrast measurements	7
9 Film gate temperature measurements	8
9.1 Apparatus	8
9.2 Procedure	8