
**Microbeam analysis — EMSA/MAS
standard file format for spectral-
data exchange**

*Analyse par microfaisceaux — Format de fichier standard EMSA/MAS
pour échange de données spectrométriques*

Preview

Dit document mag slechts op een stand-alone PC worden geïnstalleerd. Gebruik op een netwerk is alleen toestaan als een aanvullende licentieovereenkomst voor netwerkgebruik met NEN is afgesloten. This document may only be used on a stand-alone PC. Use in a network is only permitted when a supplementary license agreement for us in a network with NEN has been concluded.



Reference number
ISO 22029:2012(E)

© ISO 2012

Copyright
Preview



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

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 General considerations.....	1
3 Format description.....	2
3.1 General.....	2
3.2 Required keywords.....	3
3.3 Spectral data.....	4
3.4 Optional keywords.....	5
3.5 Ending a file.....	8
4 Example of a data file in the EMSA/MAS spectral format.....	8
Bibliography.....	10

Orbbeel
 Preview

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.

ISO 22029 was prepared by Technical Committee ISO/TC 202, *Microbeam analysis*.

This second edition cancels and replaces the first edition (ISO 22029:2003), which has been technically revised.

Copyright
Preview

Introduction

The original EMSA/MAS Standard File Format for Spectral Data Exchange was published in October 1991. Since then, advances in both microbeam analysis techniques and in PC technology have meant that this original standard is not fully able to meet modern requirements. The members of ISO/TC 202 (the International Organization for Standardization Technical Committee for Microbeam Analysis) propose this updated version. Every effort has been made to only make those changes that improve or update the applicability of the standard, while minimizing incompatibility with the original version. The remit of TC 202 does not include surface analysis techniques, which are addressed by TC 201, and so references to these techniques have been removed from the original standard where necessary. The original document also included examples of coding and telecommunications protocols. Since these are now largely outdated, and not integral to the formatting of the data, these have also been removed.

It is noted that one of the originating societies (EMSA) has modified its name since the original document was published. The society is now officially known as the "Microscopy Society of America", or MSA, the term "Electron" having been dropped to more fully indicate the work and interest of the membership of the society in all forms of microscopy.

Copyright
Preview

Voorbeeld
Preview

Bestelformulier

NEN

Stuur naar:

NEN Standards Products & Services
t.a.v. afdeling Klantenservice
Antwoordnummer 10214
2600 WB Delft

NEN Standards Products & Services

Postbus 5059
2600 GB Delft

Vlinderweg 6
2623 AX Delft

T (015) 2 690 390
F (015) 2 690 271

www.nen.nl/normshop

Ja, ik bestel

___ ex. ISO 22029:2012 en Microstralenanalyse - EMSA/MAS
standaardbestandsformaat voor spectrale gegevensuitwisseling

€ 48.19

**Wilt u deze norm in PDF-formaat? Deze bestelt u eenvoudig via
www.nen.nl/normshop**

Gratis e-mailnieuwsbrieven

Wilt u op de hoogte blijven van de laatste ontwikkelingen op het gebied van normen, normalisatie en regelgeving? Neem dan een gratis abonnement op een van onze e-mailnieuwsbrieven. www.nen.nl/nieuwsbrieven

Retourneren

Fax: (015) 2 690 271
E-mail: klantenservice@nen.nl
Post: NEN Standards Products & Services,
t.a.v. afdeling Klantenservice
Antwoordnummer 10214,
2600 WB Delft
(geen postzegel nodig).

Gegevens

Bedrijf / Instelling

T.a.v. _____ O M O V

E-mail

Klantnummer NEN

Uw ordernummer _____ BTW nummer _____

Postbus / Adres

Postcode _____ Plaats _____

Telefoon _____ Fax _____

Factuuradres (indien dit afwijkt van bovenstaand adres)

Postbus / Adres

Postcode _____ Plaats _____

Datum _____ Handtekening _____

Voorwaarden

- De prijzen zijn geldig tot 31 december 2016, tenzij anders aangegeven.
- Alle prijzen zijn excl. btw, verzend- en handelingskosten en onder voorbehoud bij o.m. ISO- en IEC-normen.
- Bestelt u via de normshop een pdf, dan betaalt u geen handeling en verzendkosten.
- Meer informatie: telefoon (015) 2 690 391, dagelijks van 8.30 tot 17.00 uur.
- Wijzigingen en typfouten in teksten en prijsinformatie voorbehouden.
- U kunt onze algemene voorwaarden terugvinden op: www.nen.nl/leveringsvoorwaarden.